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(71) Applicant *(for all designated States except US)*: **HUMAN GENOME SCIENCES, INC.** [US/US]; 9410 Key West Avenue, Rockville, MD 20850 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **BIRSE, Charles, E.** [GB/US]; 13822 Saddleview Drive, North Potomac, MD 20878 (US). **ROSEN, Craig, A.** [US/US]; 22400 Rolling Hill Lane, Laytonsville, MD 20882 (US).

(74) Agents: **WALES, Michele, M.** et al.; Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD 20850 (US).

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(54) Title: NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

(57) Abstract: The present invention relates to novel ovarian related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "ovarian antigens", and the use of such ovarian antigens for detecting disorders of the ovaries and/or breast, particularly the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian associated nucleic acid molecules are provided encoding novel ovarian associated polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

Nucleic Acids, Proteins, and Antibodies

[0001] This application refers to a "Sequence Listing" that is provided on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.

[0002] The Sequence Listing is provided as an electronic file (PA133PCTSL.txt, 7,347,875 bytes in size, created on 07 June 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: http://www.fileviewer.com).

Field of the Invention

[0003] The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian

nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Background of the Invention

[0004] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[0005] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[0006] The complexity of the female reproductive system renders it susceptible to several diseases and disorders. In particular, the ovaries and breast are subject to diseases and/or disorders such as infections, hyperproliferative disorders, as well as regulatory and genetic abnormalities.

Disorders of the Ovary

[0007] A woman's ovaries are located on both sides of the uterus, below the opening of the fallopian tubes (tubes that extend from the uterus to the ovaries). In

addition to producing egg cells for reproduction, the ovaries produce estrogen and progesterone, which affect many of the female characteristics and reproductive functions.

[0008] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.

[0009] Anovulation is also associated with polycyctic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is and endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.

[0010] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.

[0011] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

Disorders of the Breast

[0012] The breast is comprised of different structures, each with its own specific function. One-third of the breast is comprised of fatty tissue. The other two-thirds is made

up of structural components called ducts and lobules. Milk is produced in the lobules and funneled through the ducts to the nipple. Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.

[0013] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that forma mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.

[0014] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

[0015] Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

[0016] The discovery of new human ovarian associated polynucleotides, the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in

the diagnosis, treatment, prevention and/or prognosis of disorders of the ovaries and/or breast, including, but not limited to, neoplastic disorders (e.g., ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and/or as described under "Hyperproliferative Disorders" below), infectious diseases (e.g., mastitis, oophoritis, and/or as described under "Infectious Diseases" below), and inflammatory diseases (e.g., abcesses and/or as described under "Immune Disorders" below) and as described in "Reproductive System Disorders" below.

Summary of the Invention

[0017] The present invention relates to novel ovarian related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "ovarian antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such ovarian polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, particularly disorders of the ovaries and/or breast, including, but not limited to, the presence of ovarian and/or breast cancer and ovarian and/or breast cancer metastases. More specifically, isolated ovarian nucleic acid molecules are provided encoding novel ovarian polypeptides. Novel ovarian polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human ovarian polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the ovaries and/or breast, including ovarian and/or breast cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Detailed Description

Tables

[0018] Table 1 summarizes some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each ovarian associated contig sequence disclosed in Table 1. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1 as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1 as "Predicted Epitopes." In particular embodiments, ovarian associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier

code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ^{33}P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World

Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

[0019] Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1 and allowing for correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

[0020] Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to ovarian associated contig sequences disclosed in Table 1. The second column provides the sequence identifier, "SEQ ID NO:X", for contig polynucleotide sequences disclosed in Table 1. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and

the final nucleotide minus 15 of SEQ ID NO:X, represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth column of this Table. In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table.

[0021] Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.

[0022] Table 5 provides a key to the OMIM™ reference identification numbers disclosed in Table 1, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL:

http://www.ncbi.nlm.nih.gov/omim/). Column 2 provides diseases associated with the cytologic band disclosed in Table 1, column 8, as determined from the Morbid Map database.

[0023] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.

[0024] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.

Definitions

[0025] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

[0026] In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

[0027] As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof; a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1) or the complement thereof; or a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1 and contained within a library deposited with the ATCC). For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-

Phenylalanine or poly-Lysine peptide sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

[0028] As used herein, an "ovarian antigen" refers collectively to any polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement therof, or cDNA sequence contained in Clone ID NO:Z, (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement thereof, or cDNA sequence contained in Clone ID NO:Z, and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, and fragments or variants thereof as described herein). These ovarian antigens have been determined to be predominantly expressed in ovarian tissues, including normal or diseased tissues (as shown in Table 1 column 7 and Table 4).

[0029] In the present invention, "SEQ ID NO:X" was often generated by overlapping sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1 correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came

from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

[0030] In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[0031] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, ans/or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein). "Stringent hybridization conditions" refers to an overnight incubation at 42 degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 μg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

[0032] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions.

Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH_2PO_4; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).

[0033] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.

[0034] Of course, a polynucleotide which hybridizes only to polyA+ sequences (such as any 3' terminal polyA+ tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).

[0035] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons.

"Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

[0036] The polypeptide of the present invention can be composed of amino acids joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a given polypeptide. Also, a given polypeptide may contain many types of modifications. Polypeptides may be branched, for example, as a result of ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphotidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, methylation, myristoylation, oxidation, pegylation, proteolytic processing, phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

[0037] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1.

[0038] "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).

[0039] Table 1 summarizes some of the polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

Polynucleotides and Polypeptides

TABLE 1

Clone ID NO: Z	Contig ID:	SEQ ID NO: X	ORF (From-To)	AA SEQ ID NO: Y	Predicted Epitopes	Tissue Distribution Library code: count (see Table IV for Library Codes)	Cytologic Band	OMIM Disease Reference(s):
HOVCD34	396327	11	158 - 328	2186		H0428: 2		
HEBGD58	498281	12	3 - 107	2187	His-1 to Gly-19, Gly-29 to Tyr-35.	L0744: 5, L0758: 5, L0766: 4, L0803: 4, L0439: 4, L0759: 4, H0657: 3, H0341: 3, L0794: 3, H0648: 3, L0747: 3, L0752: 3, S0422: 2, L0598: 2, L0770: 2, L0809: 2, H0696: 2, L0742: 2, L0755: 2, H0716: 1, S0116: 1, H0638: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, S0007: 1, L0586: 1, H0156: 1, H0599: 1, L0022: 1, H0042: 1, H0318: 1, H0327: 1, H0328: 1, H0615: 1, L0483: 1, S0112: 1, T0042: 1, H0560: 1, H0625: 1, L0769: 1, L0800: 1, L0764: 1, L0804: 1, L0375: 1,		

HETCD42	533532	13	18 - 947	2188	Glu-29 to Lys-37, Lys-110 to Ile-118, Arg-126 to Cys-135, Lys-157 to Gly-163, Gln-188 to Trp-201, Glu-269 to Thr-278.	H0013: 8, L0731: 8, L0471: 6, S0003: 6, H0547: 6, L0439: 6, L0740: 6, H0046: 5, H0144: 5, H0171: 4, H0494: 4, L0766: 4, L0775: 4, L0666: 4, H0521: 4, L0754: 4, L0588: 4, L0600: 4, H0624: 3, H0657: 3, H0575: 3, H0591: 3, H0551: 3, H0529: 3, S0126: 3, H0696: 3, L0745: 3, S0040: 2, H0295: 2, S0116: 2, H0638: 2, S0356: 2, S0376: 2, S0278: 2,	L0805: 1, L0776: 1, L0791: 1, L0792: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, H0519: 1, H0659: 1, H0660: 1, S0152: 1, H0521: 1, H0522: 1, S0028: 1, L0749: 1, L0756: 1, L0753: 1, L0757: 1, H0445: 1, L0588: 1, L0592: 1 and S0192: 1.	7q31.2-q31.3	150240, 164160, 180105, 190900, 222800, 246900, 602421, 602421, 602421

		H0156: 2, H0036: 2, H0266: 2, H0179: 2, H0328: 2, H0615: 2, H0039: 2, H0622: 2, H0031: 2, H0090: 2, H0412: 2, H0623: 2, H0560: 2, H0625: 2, S0422: 2, L0770: 2, L0662: 2, L0768: 2, L0649: 2, L0803: 2, H0684: 2, S0152: 2, S0028: 2, S0206: 2, L0752: 2, L0757: 2, L0759: 2, S0031: 2, S0434: 2, L0362: 2, S0026: 2, S0196: 2, H0170: 1, H0556: 1, S0342: 1, S0134: 1, S0212: 1, H0661: 1, S0418: 1, S0420: 1, S0354: 1, S0358: 1, S0444: 1, H0580: 1, S0045: 1, S0132: 1, H0393: 1, L0717: 1, S0222: 1, H0614: 1, H0357: 1, H0587: 1, H0632: 1, H0270: 1, T0114: 1, H0250: 1, S0280: 1, S0474: 1, H0581: 1, H0374: 1,				

		H0052: 1, H0232: 1, H0050: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0051: 1, H0355: 1, H0375: 1, H0594: 1, S0214: 1, L0483: 1, H0553: 1, H0644: 1, H0032: 1, H0212: 1, S0036: 1, H0038: 1, H0264: 1, H0413: 1, H0056: 1, T0042: 1, S0466: 1, H0509: 1, H0207: 1, H0641: 1, H0647: 1, S0344: 1, L0638: 1, L0637: 1, L0794: 1, L0804: 1, L0805: 1, L0656: 1, L0635: 1, L0528: 1, L0664: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, H0651: 1, S0328: 1, S0330: 1, L0602: 1, H0518: 1, S0176: 1, H0555: 1, S0390: 1, L0750: 1, S0260: 1, H0595: 1, L0599: 1, L0608: 1, H0668: 1,				

						H0653: 1, S0192: 1, H0543: 1 and : 1.		
HTXKC18	535854	14	387 - 115	2189	Ser-57 to Gly-65, Gly-80 to His-86.	AR039: 65, AR096: 37, AR104: 37, AR089: 32, AR053: 27, AR052: 25, AR033: 22, AR060: 21, AR055: 21, AR061: 11 H0556: 1		
HLDRK20	553765	15	48 - 1214	2190	Thr-8 to Thr-19, Arg-108 to Ser-115, Ser-117 to Arg-128, Phe-143 to Tyr-155, Leu-171 to Arg-177, Asn-182 to Gly-187, Gly-195 to Ser-200, Arg-232 to Thr-248, Pro-287 to Arg-293.	L0665: 45, L0581: 42, H0509: 32, H0393: 15, H0574: 15, H0510: 15, L0362: 14, L0666: 11, H0658: 10, L0748: 10, H0014: 9, S0410: 8, H0331: 8, H0674: 8, S0438: 8, L0657: 8, H0689: 8, H0039: 7, L0659: 7, H0670: 7, S0044: 7, H0663: 6, H0622: 5, H0641: 5, S0360: 4, H0046: 4, H0246: 4, H0355: 4, H0169: 4, H0648: 4, L0749: 4, S0318: 3, L0662: 3, L0768: 3, L0775: 3, L0664: 3, H0682: 3, L0751: 3, H0506: 3, S0132: 2, H0441: 2, H0632: 2,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550,

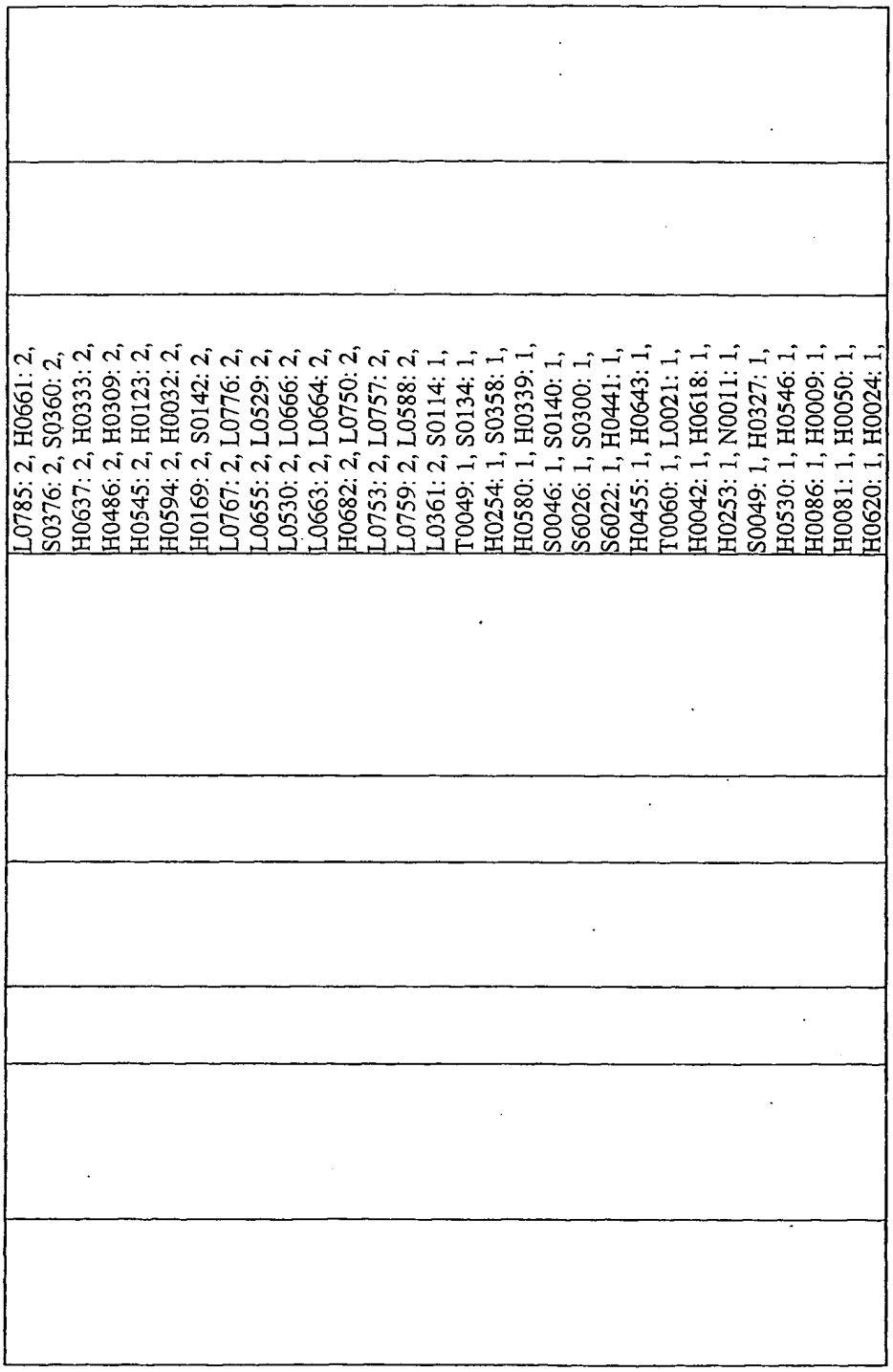
H2MBD33	558474	16	138 - 290	2191	Ser-13 to Asp-18.	L0666: 2, L0394: 1, S0434: 2, L0601: 2, H0624: 1, L0615: 1, H0662: 1, S0356: 1, L0717: 1, H0549: 1, H0431: 1, H0586: 1, H0643: 1, H0575: 1, H0569: 1, H0057: 1, H0015: 1, H0687: 1, S0003: 1, S0214: 1, H0688: 1, H0553: 1, H0124: 1, H0059: 1, L0564: 1, L0065: 1, S0440: 1, L0638: 1, L0646: 1, L0764: 1, L0771: 1, L0386: 1, L0375: 1, L0525: 1, L0378: 1, L0776: 1, L0634: 1, L0544: 1, H0144: 1, S0374: 1, H0693: 1, S0310: 1, H0593: 1, S0126: 1, H0690: 1, H0684: 1, H0435: 1, H0660: 1, H0666: 1, S0328: 1, H0521: 1, S0406: 1, H0555: 1, S0027: 1, L0750: 1, L0755: 1, S0031: 1, S0192: 1, S0276: 1 and S0196: 1.		600202, 600261, 601868, 602280, 602475

						T0109: 1, H0428: 1, H0264: 1, L0764: 1, L0665: 1 and H0648: 1.		
HSYBX61	558708	17	3 - 515	2192	Arg-13 to Ala-20, Pro-27 to Arg-32, Lys-37 to Glu-62.	H0428: 2, L0757: 2, H0170: 1, S0007: 1, H0028: 1, S0250: 1, H0252: 1, H0328: 1, H0124: 1, H0551: 1, L0439: 1 and L0750: 1.	18q12.1	176300, 176300, 176300, 176300
HELHC03	562745	18	623 - 1018	2193	Pro-105 to Trp-117.	AR089: 5, AR096: 4, AR060: 3, AR104: 3, AR061: 2, AR055: 2, AR033: 1, AR053: 1, AR039: 0 H0615: 2, H0346: 1, S0045: 1, H0156: 1, H0659: 1, L0748: 1 and H0444: 1.		
HOFMP70	585385	19	99 - 347	2194		H0415: 3	12q24.2-q24.3	100650, 100650, 142410, 142410, 142410, 160781, 181405
HSKNZ25	585675	20	357 - 641	2195	Gly-1 to Ala-9, Pro-42 to Ser-56, Leu-60 to Gly-67, Ala-86 to Asp-95.	S3012: 1		
HDPFK39	588869	21	1 - 720	2196	Pro-14 to Ser-19,	H0521: 4, H0415: 1	16p11.2	147781,

					Glu-55 to Phe-60, Asp-93 to Ser-98, Thr-138 to Tyr-144, Asn-155 to Phe-163, Arg-168 to Ser-175, Gln-205 to Lys-210, Phe-226 to Thr-233.	and H0522: 1.		172471, 182381
HL1AB07	638220	22	2 - 514	2197	Asn-18 to Arg-24, Arg-30 to Tyr-35, Glu-43 to Asp-51, Glu-56 to Gly-66, Leu-101 to Lys-107, Ala-156 to His-171.	L0747: 15, L0742: 12, L0748: 12, L0752: 12, L0757: 9, L0731: 8, L0754: 7, S0144: 6, L0755: 6, S0356: 5, S0406: 5, L0740: 5, H0046: 4, L0764: 4, H0543: 4, H0250: 3, H0040: 3, L0761: 3, L0646: 3, L0774: 3, L0806: 3, L0751: 3, L0745: 3, L0753: 3, L0759: 3, S0212: 2, H0661: 2, S0360: 2, S0280: 2, H0014: 2, H0039: 2, S0036: 2, H0163: 2, L0768: 2, L0775: 2, L0776: 2, L0379: 2, L0783: 2, L0809: 2, H0702: 2, S0126: 2, H0689: 2, H0658: 2, H0672: 2, L0439: 2, L0750: 2,	7q36	142335, 152427, 163729, 176450, 190605, 600510, 600725

L0756: 2, L0758: 2,
L0605: 2, L0590: 2,
S0011: 2, H0171: 1,
H0556: 1, T0002: 1,
S0040: 1, S0134: 1,
S0218: 1, H0657: 1,
H0341: 1, H0484: 1,
H0306: 1, H0305: 1,
H0125: 1, S0442: 1,
S0358: 1, S0132: 1,
H0351: 1, H0586: 1,
H0574: 1, H0486: 1,
H0013: 1, H0635: 1,
H0575: 1, H0318: 1,
H0052: 1, H0597: 1,
H0041: 1, H0050: 1,
L0163: 1, S0388: 1,
S0051: 1, H0356: 1,
H0266: 1, H0687: 1,
S0312: 1, S0003: 1,
H0252: 1, T0006: 1,
L0142: 1, H0313: 1,
L0055: 1, H0032: 1,
H0169: 1, H0038: 1,
T0041: 1, S0306: 1,
S0438: 1, H0130: 1,
H0641: 1, H0647: 1,
S0344: 1, S0210: 1,
L0763: 1, L0770: 1,
L0769: 1, L0372: 1,

						17	
					L0642: 1, L0645: 1, L0771: 1, L0648: 1, L0662: 1, L0364: 1, L0375: 1, L0655: 1, L0807: 1, L0657: 1, L0659: 1, L0532: 1, L0666: 1, L0664: 1, L0665: 1, H0144: 1, H0701: 1, H0711: 1, S0380: 1, H0521: 1, S0404: 1, S0206: 1, L0749: 1, L0777: 1, H0445: 1, L0599: 1, S0276: 1, H0423: 1 and H0506: 1.	L0744: 11, S0007: 10, H0617: 10, L0747: 9, H0673: 8, H0597: 6, L0809: 6, H0683: 6, L0748: 6, L0754: 6, L0731: 6, L0622: 5, L0542: 5, L0755: 5, H0306: 4, H0402: 4, H0150: 4, H0188: 4, L0775: 4, L0751: 4, H0170: 3, H0255: 3, S0278: 3, T0006: 3, H0674: 3, L0774: 3, L0740: 3, L0745: 3, H0352: 3, H0657: 2,
			2198				
			115 - 393				
		23					
	654868						
HHGAS83							


L0785: 2, H0661: 2,
S0376: 2, S0360: 2,
H0637: 2, H0333: 2,
H0486: 2, H0309: 2,
H0545: 2, H0123: 2,
H0594: 2, H0032: 2,
H0169: 2, S0142: 2,
L0767: 2, L0776: 2,
L0655: 2, L0529: 2,
L0530: 2, L0666: 2,
L0663: 2, L0664: 2,
H0682: 2, L0750: 2,
L0753: 2, L0757: 2,
L0759: 2, L0588: 2,
L0361: 2, S0114: 1,
T0049: 1, S0134: 1,
H0254: 1, S0358: 1,
H0580: 1, H0339: 1,
S0046: 1, S0140: 1,
S6026: 1, S0300: 1,
S6022: 1, H0441: 1,
H0455: 1, H0643: 1,
T0060: 1, L0021: 1,
H0042: 1, H0618: 1,
H0253: 1, N0011: 1,
S0049: 1, H0327: 1,
H0530: 1, H0546: 1,
H0086: 1, H0009: 1,
H0081: 1, H0050: 1,
H0620: 1, H0024: 1,

		H0057: 1, H0373: 1, S0051: 1, H0071: 1, H0687: 1, S0003: 1, S0214: 1, H0417: 1, H0031: 1, H0553: 1, H0111: 1, H0181: 1, H0606: 1, H0038: 1, H0616: 1, H0063: 1, H0087: 1, H0412: 1, H0059: 1, T0069: 1, T0004: 1, L0564: 1, S0440: 1, S0144: 1, S0344: 1, S0208: 1, L0598: 1, L0520: 1, L0763: 1, L0371: 1, L0770: 1, L0667: 1, L0764: 1, L0765: 1, L0771: 1, L0662: 1, L0375: 1, L0376: 1, L0378: 1, L0806: 1, L0658: 1, L0659: 1, L0518: 1, L0783: 1, L0788: 1, S0053: 1, H0691: 1, H0519: 1, S0126: 1, H0689: 1, H0660: 1, S0330: 1, H0696: 1, S0404: 1, H0576: 1, S3014: 1, S0206: 1, L0742: 1, L0743: 1, L0749: 1,			

						L0752: 1, H0445: 1, L0589: 1, L0592: 1, L0608: 1, H0422: 1, H0008: 1 and H0293: 1.		
HTSGU37	704405	24	3 - 515	2199	Ile-1 to Thr-10, Pro-66 to Gly-77, Asp-85 to Gly-116.	AR089: 7, AR060: 6, AR096: 5, AR104: 3, AR055: 3, AR061: 2 L0746: 2, H0592: 1, H0087: 1, L4501: 1, L0665: 1 and L0758: 1.	1p33-p32	120260, 120950, 120960, 138140, 178300, 187040, 246450, 600101, 600650, 600650, 600722, 600722
H2LAN34	705692	25	2 - 211	2200		T0115: 1, L0662: 1, L0766: 1, L0659: 1, L0809: 1, L0748: 1 and H0444: 1.		
HPMBZ40	711500	26	402 - 590	2201	Gly-13 to Val-36.		2	
HLYEP52	732342	27	2 - 721	2202			16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850,

									141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785
						AR096: 3, AR053: 2, AR060: 2, AR089: 2, AR033: 1, AR061: 1, AR055: 1, AR104: 0, AR039: 0 L0766: 2, S0354: 1, H0135: 1 and H0040: 1.	6p21.3		106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000,
HTTEC47	745343	28	329 - 433	2203					
HOFMO90	746416	29	113 - 391	2204	Arg-6 to Leu-12, Tyr-18 to Asp-25.				

								222100, 233100, 235200, 248611, 25650, 256550, 600202, 600261, 601868, 602280, 602475
							17p13.3	113721, 247200, 600059, 601545
						AR055: 937, AR033: 824, AR061: 791, AR104: 733, AR060: 647, AR053: 378, AR089: 278, AR039: 203, AR096: 149 H0484: 1	L0740: 2, S0356: 1, H0040: 1, H0616: 1 and H0560: 1.	3q23	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 276902, 601199,
			2205					
		99 - 164						
		30						
	762806							
	785328	31	388 - 609	2206				
HCHND34								
HAMGI86								

HLWCN67	794213	32	326 - 691	2207	Tyr-1 to Trp-9, Thr-44 to Leu-49.	L0766: 7, L0794: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, H0328: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0756: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0092: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1,		601199, 601199, 601682

						S0426: 1, UNKWN: 1, L5575: 1, L0644: 1, L0764: 1, L0662: 1, L0651: 1, L0653: 1, L0655: 1, L0661: 1, L0657: 1, L0526: 1, L0783: 1, L0793: 1, L0664: 1, S0374: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, S0454: 1, S0406: 1, S0028: 1, L0750: 1, L0752: 1, L0759: 1, S0260: 1, H0445: 1, L0596: 1 and L0597: 1.		
HOFAC09	806819	33	866 - 3	2208		H0415: 3 and H0414: 2.	12	
HRDEL61	824886	34	630 - 824	2209	Lys-1 to Trp-7, Pro-29 to His-41, Thr-48 to Arg-65.	H0124: 1		
HDPOR60	828176	35	2 - 1924	2210	Gln-35 to Ser-43, Thr-52 to Cys-57, Glu-70 to Lys-79, Trp-121 to Lys-126, Ser-152 to Ser-162, Ser-183 to Phe-191, Val-206 to Thr-213, Ile-217 to Asn-222, Arg-237 to Lys-246, Thr-279 to Cys-285,	AR052: 3, AR089: 2, AR039: 2, AR055: 2, AR033: 2, AR053: 2, AR060: 2, AR096: 1, AR061: 1, AR104: 1 H0651: 8, L0744: 7, L0748: 6, H0620: 4, S0360: 3, S0142: 3, L0755: 3, H0638: 2, H0052: 2, H0123: 2,		

		H0083: 2, H0328: 2, H0615: 2, H0039: 2, H0424: 2, H0163: 2, H0040: 2, H0059: 2, L0659: 2, L0519: 2, L0438: 2, S0378: 2, S3012: 2, S3014: 2, L0743: 2, L0750: 2, L0758: 2, L0589: 2, H0656: 1, H0662: 1, S0420: 1, S0358: 1, S0408: 1, H0637: 1, S0222: 1, H0574: 1, S0280: 1, L0021: 1, H0544: 1, H0546: 1, H0545: 1, H0081: 1, H0012: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0292: 1, H0252: 1, H0673: 1, H0100: 1, H0641: 1, S0144: 1, S0002: 1, L0761: 1, L0643: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0805: 1, L0776: 1, L0783: 1, L0793: 1, L0665: 1, S0053: 1, H0520: 1, H0658: 1, H0672: 1, H0522: 1,	His-336 to Leu-341, Pro-380 to Phe-387, Gln-405 to Asp-410, Thr-581 to Asp-595.			

						S0406: 1, H0436: 1, S0037: 1, L0747: 1, L0749: 1, L0779: 1, L0731: 1, S0031: 1 and S0434: 1.		
HPRTS71	828574	36	3 - 458	2211	Pro-117 to Lys-134, Gln-136 to Trp-143.	L0748: 3, H0486: 2, L0599: 2, S0212: 1, S0358: 1, H0596: 1, H0032: 1, H0212: 1, S0002: 1, L0769: 1, L0775: 1, L0527: 1, L0519: 1, S0122: 1, L0754: 1 and L0750: 1.		
HOHBI90	828862	37	1 - 417	2212	Pro-1 to Pro-9, Arg-81 to Glu-87, Gln-114 to Glu-119.	S0250: 2, H0435: 2, S0152: 1 and L0745: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
HOHAL47	828872	38	295 - 879	2213	Gly-17 to Leu-40, Ala-47 to Phe-63, Glu-66 to Val-71, Ile-75 to His-92, Glu-112 to Asn-119, Asp-122 to Arg-135, Asn-140 to Phe-152, Asn-160 to Arg-166.	L0741: 3, H0069: 1, S0250: 1, H0032: 1, H0212: 1, L0774: 1, H0522: 1 and L0756: 1.	8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629

HYASE58	829298	39	2 - 694	2214	Phe-4 to Gln-10.	AR061: 13, AR089: 5, AR096: 5, AR033: 4, AR060: 4, AR052: 3, AR053: 3, AR055: 3, AR104: 3, AR039: 2 H0617: 11, L0748: 5, L0731: 4, H0181: 3, L0775: 3, H0670: 3, L0749: 3, H0656: 2, H0550: 2, H0083: 2, H0087: 2, H0658: 2, H0539: 2, L0747: 2, L0750: 2, H0341: 1, H0661: 1, H0402: 1, S0418: 1, S0360: 1, S0045: 1, H0393: 1, H0587: 1, H0333: 1, H0544: 1, H0009: 1, H0510: 1, H0688: 1, H0644: 1, H0606: 1, H0708: 1, S0366: 1, H0131: 1, L0770: 1, L0540: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, H0689: 1, H0682: 1, H0672: 1, L0743: 1, L0779: 1, L0759: 1, S0434: 1 and S0460: 1.		
HKAAH95	829958	40	2 - 418	2215	Arg-13 to Trp-31,	L0766: 7, L0731: 5,			

						H0542: 5, H0494: 3, L0526: 3, L0750: 3, L0752: 3, L0757: 3, L0588: 3, H0686: 2, T0049: 2, H0657: 2, H0341: 2, S0358: 2, T0008: 2, S0046: 2, L0471: 2, H0169: 2, L0763: 2, L0774: 2, H0519: 2, S0126: 2, S0027: 2, L0590: 2, H0423: 2, H0685: 1, H0650: 1, H0662: 1, H0504: 1, S0376: 1, S0360: 1, H0580: 1, H0431: 1, T0109: 1, H0069: 1, H0098: 1, T0048: 1, S0182: 1, H0023: 1, H0014: 1, H0617: 1, H0413: 1, H0129: 1, H0625: 1, H0132: 1, S0150: 1, H0130: 1, H0633: 1, L0520: 1, L0764: 1, L0648: 1, L0662: 1, L0775: 1, L0806: 1, L0379: 1, L0517: 1, L0540: 1, L0383: 1, L0809: 1, L0519: 1, H0520: 1, H0659: 1,
					Val-61 to Asn-67, Lys-87 to Arg-92, Leu-97 to Asp-109, Ser-129 to Asp-139.	

							H0658: 1, H0666: 1, S0328: 1, S0380: 1, S0032: 1, L0779: 1, L0758: 1, L0759: 1 and H0445: 1.		
HTTIQ02	829981	41	2 - 391	2216	Ala-96 to Lys-111, Cys-117 to Cys-128.				
HWACG91	830195	42	80 - 631	2217	Ser-2 to Arg-14, Ala-37 to Lys-45, Glu-60 to Leu-68, His-75 to Glu-82, Arg-92 to Ser-99, Gly-105 to Gln-110, Arg-119 to Phe-125.	H0581: 1 and H0521: 1.	6p12	180297, 230450, 263200, 601690	
HUFBX52	830497	43	2 - 1531	2218	Thr-1 to Leu-9, Ser-46 to Leu-56, Glu-117 to Lys-124, Pro-129 to Asp-135, Ala-144 to Gln-150, Gly-156 to Lys-162, Phe-182 to Pro-187, Pro-196 to Gln-201, Lys-217 to Asp-227.	H0124: 8, H0550: 5, H0428: 3, H0586: 2, H0575: 2, H0555: 2, H0294: 1, S0282: 1, H0427: 1, H0196: 1, H0052: 1, H0194: 1, H0086: 1, H0123: 1, H0509: 1, H0684: 1, L0748: 1, L0747: 1, L0756: 1, S0192: 1 and H0506: 1.			
HWLJE49	831453	44	1 - 315	2219	Tyr-34 to His-42, Leu-44 to Leu-49.	S0358: 1, S0376: 1 and H0413: 1.	1p36	118210, 120550, 120570, 120575, 121800,	

									130500, 133200, 155600, 171760, 171760, 185470, 211420, 230350, 255800, 601990, 602023, 602771
HLQBT44	832454	45	590 - 393	2220	Ala-23 to Asp-41.				
HSLGG58	833088	46	92 - 1450	2221	Gln-102 to Arg-109, Gly-177 to Pro-183, Pro-315 to Asn-323, Ser-361 to Cys-369, Ala-381 to Ser-391, Ser-419 to Ser-428.	AR061: 141, AR104: 122, AR055: 119, AR060: 115, AR052: 82, AR033: 78, AR039: 72, AR089: 67, AR053: 38, AR096: 32 L0759: 4, H0617: 3, L0749: 3, L0779: 3, H0253: 2, H0188: 2, H0165: 2, L0769: 2, L0637: 2, L0761: 2, L0665: 2, S0374: 2, H0682: 2, H0659: 2, L0748: 2, H0171: 1, H0685: 1, H0341: 1, H0255: 1, S0420: 1, H0586: 1, H0599: 1,	11q13		102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235,

						H0510: 1, S6028: 1, H0428: 1, H0424: 1, H0102: 1, H0494: 1, H0560: 1, L0770: 1, L0662: 1, L0774: 1, L0659: 1, L0526: 1, L0518: 1, L0528: 1, L0787: 1, L0666: 1, L0663: 1, H0693: 1, H0658: 1, S0152: 1, S0028: 1, L0439: 1, L0745: 1, L0755: 1, L0758: 1 and L0601: 1.		209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
HCHBQ33	840756	47	148 - 480	2222	Arg-8 to Gln-19, Arg-25 to Lys-38.	H0483: 1, S0045: 1, S0046: 1, H0486: 1, H0012: 1, H0355: 1, S0364: 1, H0087: 1, H0413: 1, H0366: 1, S0028: 1, L0601: 1 and H0352: 1.	19p	
HDTMK30	840862	48	36 - 353	2223	Arg-2 to Pro-12, Lys-32 to Asn-37, His-75 to Asn-82.	H0486: 1, H0123: 1 and L0756: 1.	7q11.23	116860, 129900, 233700, 600079
HDPFX64	841088	49	320 - 1096	2224		L0757: 6, L0752: 5, L0439: 4, S0150: 2, L0774: 2, S3014: 2, L0747: 2, L0750: 2, S0276: 2, S0212: 1, S0007: 1, H0574: 1,	6pter-q12	

						H0581: 1, H0068: 1, S0036: 1, H0135: 1, T0067: 1, L0065: 1, H0529: 1, H0026: 1, L0762: 1, L0773: 1, L0521: 1, L0766: 1, S0052: 1, H0521: 1, L0748: 1, L0749: 1, L0731: 1, L0759: 1, L0485: 1, L0593: 1 and H0542: 1.		
HODFG71	843485	50	1013 - 951	2225	Asp-1 to Glu-6.	AR089: 3, AR060: 2, AR053: 2, AR096: 2, AR061: 2, AR039: 1, AR033: 1, AR055: 0, AR104: 0 H0615: 1		
HCE3I65	844534	51	2 - 244	2226		S0358: 1, H0052: 1, H0375: 1, H0087: 1, H0380: 1, H0435: 1, H0521: 1, S0390: 1 and L0366: 1.		
HSAVH65	847355	52	2 - 397	2227	Ser-90 to His-96, Arg-127 to Gln-132.	S0114: 2, H0686: 1, L0769: 1, L0644: 1, L0662: 1, L0774: 1, L0666: 1, H0659: 1, L0750: 1 and S0436: 1.		
HBXFT41	847647	53	707 - 817	2228	Glu-14 to Gly-23.	AR096: 2, AR089: 2, AR061: 1, AR039: 0, AR060: 0, AR055: 0,	19p13.3	108725, 120700, 133171,

							AR033: 0, AR104: 0 L0717: 1, H0438: 1, H0090: 1 and L0749: 1.		136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HBMCM38	847821	54	373 - 290	2229			L0717: 1 and H0421: 1.		
HACBO42	849064	55	3 - 86	2230	Arg-19 to Pro-25.		L0776: 5, L0439: 4, L0805: 3, H0009: 2, L0438: 2, H0580: 1, S0280: 1, S0346: 1, H0674: 1, L0774: 1, L0384: 1, L0747: 1, L0786: 1, L0780: 1, L0752: 1, L0753: 1, S0031: 1, L0608: 1, S0412: 1 and L0698: 1.		
HODBF86	859572	56	276 - 338	2231			H0328: 2 and H0509: 1.		
HOABP90	859622	57	628 - 735	2232	Asp-23 to Asn-30.		AR089: 2, AR039: 2, AR096: 1, AR053: 1, AR104: 1, AR060: 1, AR061: 0, AR055: 0, AR033: 0 H0252: 1		

HE8UE42	862010	58	3 - 1610	2233	Glu-146 to Pro-151, Ala-231 to Ser-237, Asp-317 to Pro-322, Lys-365 to Gly-371, Phe-459 to Pro-464.	AR089: 8, AR060: 7, AR104: 5, AR096: 4, AR061: 3, AR055: 3 H0659: 5, L0740: 5, L0662: 4, L0771: 3, H0547: 3, H0521: 3, L0759: 3, L0362: 3, H0013: 2, H0597: 2, H0046: 2, H0083: 2, S0214: 2, H0674: 2, H0494: 2, L0517: 2, H0682: 2, L0747: 2, L0779: 2, S0434: 2, H0685: 1, H0583: 1, H0661: 1, H0638: 1, S0420: 1, S0360: 1, H0580: 1, H0438: 1, H0497: 1, H0599: 1, S0010: 1, H0581: 1, H0545: 1, H0457: 1, H0563: 1, L0163: 1, L0055: 1, H0673: 1, H0212: 1, H0591: 1, H0038: 1, H0616: 1, H0488: 1, S0142: 1, S0344: 1, L0763: 1, L0770: 1, L0767: 1, L0766: 1, L0776: 1, L0659: 1, L0782: 1, L0545: 1, H0144: 1,		

HUSJJ59	862481	59	65 - 316	2234	Pro-1 to Met-6, Thr-47 to Asp-54.	L0748: 7, L0747: 6, L0769: 5, L0731: 4, S0444: 3, H0083: 3, H0412: 3, L0775: 3, H0670: 3, S0380: 3, L0779: 3, L0758: 3, H0352: 3, H0170: 2, S0007: 2, T0048: 2, H0309: 2, H0081: 2, H0413: 2, H0059: 2, H0641: 2, L0774: 2, L0655: 2, L0526: 2, H0144: 2, H0659: 2, H0710: 2, H0696: 2, S0027: 2, L0757: 2, L0615: 1, S0040: 1, H0295: 1, H0656: 1, S0116: 1, H0341: 1, H0484: 1, H0661: 1, H0664: 1, S0360: 1, S0408: 1, H0637: 1, H0393: 1, H0411: 1, H0392: 1, H0486: 1, H0318: 1, L0738: 1,	H0672: 1, S0152: 1, S0406: 1, H0627: 1, S0390: 1, L0748: 1, L0777: 1, L0758: 1, S0026: 1, H0665: 1 and H0543: 1.	8p23.2-p23.1	

						H0545: 1, L0471: 1, H0014: 1, T0023: 1, H0181: 1, H0606: 1, H0673: 1, S0366: 1, H0316: 1, H0163: 1, H0087: 1, H0625: 1, S0438: 1, H0633: 1, S0210: 1, L0598: 1, H0517: 1, L0520: 1, L0371: 1, L0772: 1, L0764: 1, L0521: 1, L0549: 1, L0803: 1, L0776: 1, L0540: 1, L0783: 1, L0809: 1, L0529: 1, L0663: 1, L0665: 1, S0374: 1, H0593: 1, S0126: 1, H0711: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0404: 1, S0406: 1, S0432: 1, S3014: 1, L0740: 1, L0752: 1, L0590: 1, L0599: 1, H0668: 1, S0026: 1, H0423: 1, H0422: 1, S0424: 1 and H0712: 1.
HSSDM07	863515	60	221 - 1090	2235	Gln-1 to Ala-6, Arg-18 to His-24, Ala-80 to Val-88,	L0803: 3, H0556: 2, L0769: 2, L0800: 2, H0265: 1, S0134: 1,		

HBCBW52	866444	61	1101 - 1352	2236	Asp-97 to Asp-103, Arg-125 to Tyr-132, Arg-155 to Leu-161, Ser-167 to Asn-172, Gln-182 to Lys-187, Pro-206 to Thr-212, Glu-218 to Ser-228, Ser-236 to Pro-245.	S0358: 1, H0642: 1, H0575: 1, H0135: 1, L0809: 1, L0789: 1, S0330: 1, L0750: 1 and L0777: 1.		
HOGAS18	867969	62	352 - 552	2237	Phe-31 to Gln-36, Glu-51 to Ile-79.	L0596: 5, S0114: 2, H0370: 1, H0012: 1, H0620: 1 and S0038: 1.		
					Pro-1 to Ser-10, Leu-16 to Gly-21, Thr-43 to Thr-55, Lys-60 to Gly-67.	AR089: 6, AR060: 5, AR039: 4, AR096: 4, AR033: 2, AR055: 2, AR104: 1, AR061: 1, AR053: 0 H0435: 2, H0395: 1 and H0402: 1.		
HHSDL18	869701	63	494 - 628	2238		L0471: 1, S0051: 1, H0040: 1 and L0747: 1.		
HTFMS34	870486	64	2 - 460	2239	Tyr-1 to Trp-6.	L0511: 11, L0499: 6, L0509: 6, L0507: 5, L0502: 5, L0500: 5, L0508: 5, L0751: 5, L0493: 4, L0514: 4, L0504: 3, L0510: 3, L0809: 3, L0748: 3, L0505: 2, L0805: 2, L0515: 2, H0659: 2, H0670: 2, L0752: 2,		

HLDOG81	874506	65	1232 - 798	2240	Ile-81 to Arg-91.	S0424: 2, H0431: 1, H0150: 1, H0039: 1, H0674: 1, H0087: 1, T0041: 1, L0800: 1, L0768: 1, L0789: 1, L0664: 1 and L0749: 1.	1q22-q25	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 150292, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 208250, 233710, 600923, 600995, 601412, 601518, 601652, 602491

HTXQF81	874608	66	2 - 628	2241	Pro-3 to Arg-8, Gly-34 to Thr-53, Asp-60 to Ser-65, Phe-76 to Lys-81.	L0751: 13, L0771: 10, L0748: 9, L0601: 7, S0356: 6, L0731: 6, L0758: 6, L0769: 4, L0565: 4, L0747: 4, L0756: 4, L0596: 4, H0598: 3, L0766: 3, S0052: 3, S0206: 3, L0750: 3, H0542: 3, H0294: 2, H0657: 2, L0785: 2, S0418: 2, S0358: 2, S0360: 2, H0586: 2, H0587: 2, H0575: 2, H0081: 2, H0620: 2, H0083: 2, H0271: 2, H0622: 2, H0617: 2, H0494: 2, S0142: 2, L0374: 2, L0521: 2, L0381: 2, L0775: 2, L0776: 2, L0659: 2, S0027: 2, L0777: 2, L0759: 2, H0445: 2, L0591: 2, L0604: 2, H0556: 1, T0002: 1, H0222: 1, S0040: 1, H0295: 1, S0218: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0241: 1, S0420: 1, S0354: 1,	Xp11.23	300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060

	H0580: 1, S0045: 1, S0046: 1, S0278: 1, L0623: 1, H0486: 1, T0060: 1, H0427: 1, H0253: 1, H0581: 1, H0204: 1, H0597: 1, H0123: 1, H0011: 1, S0362: 1, H0375: 1, H0594: 1, H0179: 1, H0188: 1, H0428: 1, H0604: 1, H0213: 1, H0031: 1, L0055: 1, H0068: 1, H0090: 1, H0634: 1, H0063: 1, H0380: 1, H0433: 1, H0560: 1, S0466: 1, H0641: 1, H0649: 1, S0344: 1, H0026: 1, L0763: 1, L0761: 1, L0772: 1, L0372: 1, L0662: 1, L0378: 1, L0783: 1, L0384: 1, L0383: 1, L0666: 1, L0664: 1, S0126: 1, S0380: 1, S0152: 1, H0521: 1, S0406: 1, H0555: 1, L0740: 1, L0749: 1, L0780: 1, L0757: 1, S0192: 1, S0276: 1 and H0543: 1.				

HCRNG90	874787	67	87 - 947	2242	Thr-5 to Gly-11, Arg-63 to Lys-73, Gln-92 to Glu-98, Ala-106 to Gly-112.	AR061: 56, AR055: 46, AR104: 43, AR096: 27, AR060: 25, AR089: 17 S0356: 4, L0809: 4, H0551: 2, S0342: 1, S0212: 1, H0544: 1, H0046: 1, L0803: 1, L0774: 1, S0126: 1 and S0152: 1.	6q14-q21	120110, 121014, 136550, 203310, 269920, 601666, 602772
HPWCL64	874891	68	2 - 601	2243	Glu-26 to Ser-33, Thr-82 to Phe-90, Met-107 to Asn-114, Thr-125 to Glu-131, His-175 to Asp-180.	L0766: 7, L0771: 4, L0752: 4, L0438: 2, L0756: 2, L0777: 2, L0780: 2, H0341: 1, T0115: 1, T0110: 1, L0776: 1, L0783: 1, L0663: 1, S0044: 1, L0744: 1, L0439: 1, L0754: 1, L0750: 1 and L0779: 1.		
HWLMV62	874930	69	2 - 463	2244		H0140: 1, S0116: 1, S0376: 1, S0360: 1, L0695: 1, H0412: 1, H0641: 1, L0662: 1, L0803: 1, L0774: 1, L0527: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, H0682: 1, H0435: 1, H0648: 1, L0743: 1, L0731: 1,		

H2MAC06	874931	70	2 - 763	2245		S0434: 1, L0596: 1 and L0362: 1.	AR096: 102, AR055: 51, AR089: 46, AR060: 30, AR104: 29, AR061: 19 S0406: 23, L0362: 22, S0410: 13, H0593: 12, H0674: 10, S0434: 9, L0764: 8, S0358: 7, L0646: 7, H0506: 6, H0509: 5, L0809: 5, H0435: 5, S0376: 4, L0765: 4, L0382: 4, L0751: 4, H0686: 3, H0252: 3, H0169: 3, H0670: 3, S0330: 3, H0656: 2, S0116: 2, S0132: 2, H0581: 2, H0596: 2, S0314: 2, T0023: 2, H0059: 2, S0440: 2, L0372: 2, L0381: 2, L0659: 2, L0666: 2, H0690: 2, L0750: 2, L0596: 2, L0601: 2, H0171: 1, S0430: 1, H0650: 1, H0663: 1, H0306: 1, S0360: 1, T0104: 1, T0071: 1, H0421: 1,		

							H0251: 1, H0263: 1, H0204: 1, H0231: 1, H0039: 1, H0622: 1, L0194: 1, L0483: 1, S0368: 1, H0032: 1, H0090: 1, H0040: 1, H0488: 1, H0494: 1, S0352: 1, H0646: 1, L0762: 1, L0800: 1, L0553: 1, L0648: 1, L0775: 1, L0376: 1, L0653: 1, L0540: 1, L0783: 1, L0664: 1, S0053: 1, S0374: 1, H0682: 1, H0684: 1, H0658: 1, H0648: 1, H0672: 1, S0328: 1, S0152: 1, S0432: 1, S0436: 1 and L0600: 1.		
HWLRF06	875093	71	2 - 385	2246	Gly-2 to Gly-7, Glu-9 to Gln-16, Cys-24 to Gly-30, Ala-35 to Ala-45, Ala-55 to Ala-60, Cys-79 to Leu-90, Asp-95 to Asp-103.	S0212: 1 and S0360: 1.				
HODDO41	875352	72	323 - 487	2247	Glu-29 to Asn-42.		H0328: 2			
HCHMQ74	875371	73	3 - 440	2248	Pro-6 to Leu-25, Ser-34 to Arg-53, Pro-71 to Gly-81,	S0330: 2, L0748: 2, H0484: 1, T0114: 1 and L0764: 1.				

					Ser-83 to Glu-94.			
HT3AI55	875682	74	1 - 504	2249		L0749: 3, S0356: 2, L0766: 2, H0170: 1, H0140: 1, L0770: 1, L0662: 1, L0659: 1, H0682: 1, L0752: 1, L0731: 1, L0758: 1 and H0542: 1.		
HMVBD68	876052	75	130 - 276	2250		L0745: 6, S0360: 4, S0440: 2, H0341: 1, S0212: 1, L0717: 1, H0587: 1, H0497: 1, H0574: 1, H0687: 1, H0428: 1, S0422: 1, L0667: 1, L0645: 1, L0662: 1, L0768: 1, L0649: 1, L0518: 1, H0435: 1, S0380: 1, H0518: 1, L0754: 1, L0746: 1, S0434: 1, L0592: 1 and S0424: 1.		
HOCTA74	876487	76	65 - 292	2251	Lys-1 to Ser-7.	L0748: 5, L0764: 4, L0774: 4, L0758: 3, L0662: 2, L0751: 2, L0608: 2, L0760: 1, S0444: 1, H0331: 1, H0263: 1, H0674: 1, L0770: 1, L0649: 1, L0803: 1, L0775: 1, L0809: 1, L0666: 1,		

HISET05	876686	77	433 - 909	2252	Ala-1 to Thr-8, Ala-15 to Pro-23, Pro-68 to Gly-78, Ser-82 to Gly-93, Gly-118 to Ala-135.	L0663: 1, L0665: 1, S0374: 1, L0565: 1, H0648: 1, L0752: 1, L0596: 1, L0361: 1, S0026: 1 and H0506: 1.				
						L0761: 2, L0800: 1, L0773: 1, L0803: 1 and H0539: 1.				
HCRQM22	876696	78	3 - 332	2253	Arg-1 to Arg-7, Gly-72 to Asp-78, Lys-83 to Gln-90.	S0356: 1, H0318: 1, H0038: 1 and H0040: 1.	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096		
HLHTC92	877310	79	143 - 478	2254	Met-2 to Leu-12, Ser-16 to Asp-23, Gly-38 to Lys-45.	H0208: 1, H0263: 1, H0412: 1 and L0754: 1.				
H2CAA49	879484	80	1426 - 203	2255	Lys-44 to His-50, Thr-110 to Pro-116, Lys-178 to Gln-183, Pro-196 to Lys-205,					

					Arg-214 to Thr-220, Asp-295 to Leu-301, Pro-316 to Glu-324, Glu-331 to Tyr-336, Gly-347 to Val-354.			
HETKQ94	880545	81	2 - 943	2256	Lys-84 to Gly-98, Asp-126 to Pro-134, Ser-208 to His-218, Tyr-233 to Asp-243, Arg-288 to Pro-295, Gly-303 to Ser-314.	AR052: 3, AR061: 3, AR089: 3, AR096: 2, AR055: 2, AR060: 2, AR053: 2, AR033: 2, AR039: 1, AR104: 1 H0046: 6, L0769: 3, L0748: 3, L0779: 3, L0777: 3, S0358: 2, S0005: 2, H0618: 2, L0662: 2, L0776: 2, H0547: 2, L0439: 2, L0751: 2, L0600: 2, S0040: 1, S0134: 1, S0218: 1, H0650: 1, S0418: 1, S0045: 1, H0549: 1, H0333: 1, H0486: 1, H0253: 1, H0231: 1, H0620: 1, H0014: 1, S0250: 1, H0063: 1, H0087: 1, H0264: 1, H0280: 1, L0640: 1, L0770: 1, L0764: 1, L0768: 1, L0806: 1, L0663: 1, L0664: 1, H0520: 1,		

							H0539: 1, S0390: 1, S0028: 1, L0747: 1, L0758: 1 and S0424: 1.		
HOFMO23	882466	82	5 - 502	2257	Asn-40 to Val-45.	AR089: 2, AR096: 1, 7 AR060: 1, AR039: 0, AR061: 0, AR033: 0, AR104: 0 H0415: 2			
HNTNP58	882787	83	2162 - 2383	2258		AR039: 105, AR096: 91, AR089: 70, AR104: 48, AR033: 48, AR053: 46, AR060: 43, AR055: 18, AR061: 16 S0444: 5, H0436: 5, L0521: 3, H0684: 3, H0659: 3, L0758: 3, S0410: 2, H0250: 2, S0049: 2, L0471: 2, H0266: 2, H0625: 2, S0440: 2, L0805: 2, H0690: 2, L0747: 2, L0779: 2, S0026: 2, H0422: 2, H0170: 1, H0265: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, H0341: 1, H0664: 1, H0638: 1, S0007: 1, S0046: 1, H0351: 1, H0559: 1, H0427: 1,		

						H0421: 1, L0738: 1, H0545: 1, H0083: 1, H0628: 1, H0321: 1, H0412: 1, T0069: 1, H0202: 1, H0494: 1, S0422: 1, L0763: 1, L0769: 1, L0772: 1, L0764: 1, L0657: 1, L0783: 1, L0809: 1, L0519: 1, L0665: 1, H0698: 1, H0691: 1, H0724: 1, H0520: 1, H0547: 1, S0126: 1, H0670: 1, H0660: 1, H0666: 1, H0648: 1, H0134: 1, S0028: 1, L0756: 1, L0752: 1, S0434: 1, L0589: 1, H0136: 1, S0194: 1, S0276: 1, H0543: 1 and H0423: 1.		108985, 186921, 602092
HOFNY28	888480	84	3 - 479	2259		AR053: 6, AR089: 6, AR039: 6, AR060: 5, AR104: 4, AR096: 4, AR033: 3, AR055: 3, AR061: 2 H0415: 1	11p15		
HE8MQ01	889128	85	2612 - 2478	2260	Ser-8 to Cys-14, Trp-34 to Phe-45.	H0729: 1, H0392: 1, H0013: 1, H0318: 1, H0009: 1, H0328: 1,			

HE2RG21	891139	86	2 - 553	2261	Arg-1 to Asn-14, Lys-47 to Glu-53, Ser-59 to Ser-70, Gln-82 to Gly-93, Glu-100 to Glu-105, Gly-123 to Ser-129, Phe-164 to Lys-173.	H0615: 1, T0041: 1, L0662: 1, L0768: 1, L0522: 1, H0436: 1, H0444: 1 and S0308: 1.			
HHENW77	894855	87	3 - 341	2262		AR033: 8, AR104: 6, AR089: 3, AR039: 3, AR060: 2, AR061: 2, AR096: 2, AR053: 0, AR055: 0 H0539: 9, H0052: 5, T0010: 4, L0439: 4, L0769: 3, L0443: 2, H0046: 2, L0456: 2, L0770: 2, L5574: 2, L0803: 2, L0664: 2, L0438: 2, L0751: 2, L0747: 2, S0436: 2, H0542: 2, H0717: 1, S0010: 1, H0744: 1, H0562: 1, H0012: 1, S0388: 1, H0510: 1, H0418: 1, H0617: 1, S0038: 1, L0351: 1,			

						L0762: 1, L0631: 1, L0638: 1, L5565: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0635: 1, L0382: 1, L0788: 1, L0666: 1, H0520: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, H0696: 1, L0742: 1, L0750: 1, L0780: 1, L0752: 1, H0445: 1, H0543: 1, H0423: 1 and H0422: 1.		
HOFNU55	897344	88	705 - 517	2263	Phe-58 to Ala-63.	H0415: 2		
HE8TE40	897862	89	86 - 1165	2264	Ser-50 to Thr-57, Pro-89 to Arg-96, Thr-128 to Glu-137, Cys-150 to Asp-155, Arg-176 to Lys-184, Glu-186 to Cys-201, Ala-238 to Ala-247, Pro-270 to Pro-277, Thr-283 to Thr-295, Leu-329 to Arg-338, Gln-345 to Arg-350.	L0803: 8, S0408: 4, L0804: 3, L0805: 3, L0766: 2, L0779: 2, S0114: 1, H0341: 1, H0662: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, H0615: 1, H0038: 1, S0440: 1, L0800: 1, L0521: 1, L0794: 1, L0774: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1,		

HNTCH73	900546	90	114 - 1418	2265	Ala-69 to Ser-77, Arg-95 to Lys-102, Gln-117 to Gln-125, Tyr-133 to Arg-140, Pro-157 to Ser-163, Glu-190 to Phe-202, Trp-251 to Asn-258, Gln-270 to Gln-277, Leu-285 to Gly-290, Thr-312 to Arg-337.	S0380: 1, H0696: 1, L0612: 1, L0745: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1. AR089: 3, AR096: 2, AR060: 1, AR033: 1, AR104: 1, AR061: 1, AR055: 0, AR039: 0, AR053: 0 H0686: 4, H0574: 3, H0412: 3, S0045: 2, H0024: 2, L0777: 2, L0759: 2, L0603: 2, H0664: 1, S0418: 1, S0358: 1, S0360: 1, H0208: 1, S0046: 1, H0619: 1, H0549: 1, H0632: 1, H0485: 1, H0309: 1, H0085: 1, H0235: 1, L0471: 1, H0620: 1, H0083: 1, S6028: 1, H0622: 1, S0366: 1, S0464: 1, L0065: 1, L0638: 1, L0637: 1, L0764: 1, L0773: 1, L0768: 1, L0774: 1, L0659: 1, H0144: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, S0406: 1,	14q22-q23	107970, 112262, 182600, 182870, 182870, 182870, 232700, 602086

						H0627: 1, H0631: 1, L0749: 1, L0779: 1, S0026: 1, H0136: 1 and S0194: 1.		
HHFBY53	902534	91	3 - 299	2266	Lys-9 to Ser-15, Pro-29 to Ala-35.	AR060: 3, AR033: 1, AR089: 1, AR104: 1, AR096: 0, AR055: 0, AR039: 0, AR061: 0 S0360: 3, H0670: 3, H0556: 2, H0292: 2, H0686: 1, H0685: 1, S0134: 1, S0116: 1, H0662: 1, H0640: 1, S0300: 1, H0586: 1, H0642: 1, L0622: 1, L0586: 1, H0253: 1, H0050: 1, H0057: 1, T0006: 1, L0653: 1, L0657: 1, L0659: 1, L0787: 1, L0666: 1, L0663: 1, H0547: 1, H0659: 1, H0648: 1, H0436: 1, L0748: 1, L0362: 1, L0361: 1, H0653: 1, H0542: 1, H0423: 1 and H0422: 1.	Xq13.1	304040, 305100, 305450, 309605, 312760, 314250, 314580
HDPIE44	904763	92	1 - 2418	2267	Pro-1 to Arg-13, Pro-71 to Ser-77, Asn-107 to Ser-122, Val-150 to Pro-155,	AR052: 2, AR033: 2, AR096: 2, AR053: 1, AR060: 1, AR104: 1, AR055: 1, AR089: 1,		

					Ser-235 to Lys-241, Arg-349 to Phe-360, Thr-363 to Glu-376, Gln-438 to Thr-443, Leu-466 to Ala-472, Lys-475 to Thr-484, Ser-511 to Val-516, Glu-544 to Ser-550, Tyr-627 to Thr-632, Arg-650 to Lys-658, Asp-683 to Asn-688, Glu-740 to Glu-746, Tyr-755 to Glu-760.	AR061: 0, AR039: 0 S0358: 3, H0622: 2, H0553: 2, H0090: 2, L0769: 2, L0794: 2, H0547: 2, S0126: 2, L0747: 2, H0265: 1, S0418: 1, H0208: 1, S0045: 1, H0486: 1, H0052: 1, H0046: 1, H0024: 1, H0051: 1, H0375: 1, H0634: 1, H0488: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, H0538: 1, L0800: 1, L0803: 1, L0804: 1, L0805: 1, L4501: 1, H0521: 1, H0555: 1, L0779: 1, S0436: 1 and H0506: 1.
HHSAX10	904783	93	3 - 683	2268	Lys-33 to Arg-46, Met-141 to His-150, Thr-205 to Thr-211, Arg-218 to Ser-226.	AR033: 35, AR104: 29, AR089: 13, AR096: 11, AR060: 9, AR052: 8, AR053: 7, AR055: 6, AR039: 5, AR061: 2 L0745: 7, L0756: 7, L0598: 6, S0346: 5, S0036: 5, L0769: 4, L0777: 4, L0731: 4, S0010: 3, H0052: 3,	

S0051: 3, L0770: 3, L0803: 3, L0438: 3, L0758: 3, S0031: 3, H0170: 2, H0438: 2, S0049: 2, T0010: 2, H0687: 2, H0038: 2, H0616: 2, L0351: 2, L0794: 2, L0806: 2, L0790: 2, H0660: 2, L0439: 2, L0751: 2, L0754: 2, L0366: 2, S6024: 1, S0300: 1, H0351: 1, S0222: 1, H0013: 1, T0048: 1, H0194: 1, H0009: 1, H0565: 1, H0050: 1, H0242: 1, H0051: 1, H0201: 1, S0388: 1, H0083: 1, H0510: 1, H0428: 1, H0031: 1, L0455: 1, S0039: 1, H0561: 1, L0369: 1, L0520: 1, L0371: 1, L0638: 1, L0796: 1, L0637: 1, L0662: 1, L0774: 1, L0635: 1, L0809: 1, L0666: 1, L0663: 1, H0659: 1, H0648: 1, H0651: 1, S0330: 1, S3014: 1,

HPIAX83	906066	94	156 - 2459	2269	Gly-1 to Ser-9, Arg-127 to Arg-138, Tyr-188 to Arg-193, Arg-246 to His-254, Ser-428 to Arg-434, Lys-487 to Lys-493, Gly-515 to Leu-523, Leu-545 to Asn-550, Leu-579 to Ala-588, Lys-631 to Cys-639, Lys-717 to Ser-724.	L0748: 1, L0740: 1, L0780: 1, L0752: 1, L0753: 1, L0759: 1, S0260: 1, L0589: 1 and L0592: 1.	AR052: 5, AR033: 4, AR061: 3, AR089: 3, AR060: 3, AR055: 3, AR104: 3, AR096: 3, AR053: 3, AR039: 1 L0157: 4, L0777: 4, L0759: 4, H0551: 3, H0144: 3, L0438: 3, S0360: 2, S0036: 2, L0771: 2, L0775: 2, L0659: 2, L0783: 2, S0374: 2, H0658: 2, H0672: 2, L0591: 2, S0342: 1, S0358: 1, H0722: 1, H0427: 1, S0346: 1, H0581: 1, H0327: 1, L0471: 1, S0051: 1, S0003: 1, H0040: 1, H0561: 1, S0440: 1, S0150: 1, L0770: 1, L0764: 1, L0662: 1, L0774: 1, L0526: 1, L0519: 1, L0666: 1, L0663: 1, L0665: 1, L0352: 1,		

HOFNG28	908746	95	3 - 401	2270	Gln-76 to Asp-82, Lys-96 to Gln-103.	H0547: 1, H0684: 1, H0659: 1, H0648: 1, H0539: 1, S0152: 1, S0028: 1, L0756: 1, L0779: 1, L0731: 1, L0758: 1, S0434: 1, S0436: 1, L0362: 1, H0542: 1 and H0422: 1.	AR052: 2, AR089: 2, AR055: 1, AR060: 1, AR096: 1, AR033: 1, AR061: 1, AR104: 1, AR053: 0, AR039: 0 H0415: 2		
HOFOB27	911947	96	565 - 1491	2271	Cys-1 to Cys-15, Arg-24 to Gly-31, Lys-37 to Glu-47, Glu-85 to Lys-92, Tyr-102 to Gly-107, Asp-166 to Lys-181, Phe-216 to His-229, Gln-248 to Phe-254, Arg-260 to Cys-267, Ser-285 to Arg-296.		AR053: 2, AR089: 2, AR055: 1, AR060: 1, AR096: 1, AR061: 0, AR039: 0, AR033: 0, AR104: 0 L0758: 6, H0620: 4, L0769: 4, L0777: 4, H0556: 3, S0420: 2, L0770: 2, L0803: 2, L0776: 2, L0659: 2, L0666: 2, S0374: 2, L0748: 2, L0591: 2, H0265: 1, H0685: 1, S0134: 1, H0484: 1, S0354: 1, S0360: 1, S0408: 1, H0580: 1,		

HHBHJ45	913831	97	2 - 1498	2272	Ala-65 to Lys-73, Phe-135 to Arg-140, Glu-174 to Pro-184, Glu-207 to Ala-212, Lys-220 to Asp-231, Glu-236 to Lys-252, Glu-268 to Asn-286, Leu-378 to Ser-384, Gln-421 to Gly-437, Leu-448 to Asp-453, Glu-485 to Trp-495.	H0415: 1, H0587: 1, H0599: 1, H0053: 1, H0052: 1, H0081: 1, H0288: 1, H0428: 1, H0059: 1, H0633: 1, L0766: 1, L0650: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, S0378: 1, H0521: 1, L0439: 1, L0740: 1, L0751: 1, L0755: 1, L0595: 1, H0665: 1, S0424: 1 and H0677: 1.	L0775: 6, H0659: 5, L0438: 4, L0747: 4, S0408: 3, L0439: 3, H0040: 2, L0509: 2, L0513: 2, L0751: 2, L0756: 2, L0755: 2, L0596: 2, L0362: 2, S0040: 1, H0341: 1, S0354: 1, H0411: 1, H0497: 1, S0049: 1, H0373: 1, T0010: 1, S0214: 1, S0366: 1, H0413: 1, L0769: 1, L0772: 1, L0764: 1,	2p14-p16	126600, 126600, 136435, 160980, 203800, 600678

						L0626: 1, L0768: 1, L0387: 1, L0766: 1, L0498: 1, L0650: 1, L0774: 1, L0375: 1, L0508: 1, L0655: 1, L0657: 1, L0783: 1, L0663: 1, L0352: 1, H0547: 1, H0593: 1, H0648: 1, S0136: 1, H0522: 1, H0696: 1, L0750: 1, L0758: 1, S0434: 1, L0604: 1 and H0423: 1.		
HHPDV90	914163	98	1188 - 1045	2273	Asn-21 to Lys-39, Leu-43 to Lys-48.	AR096: 7, AR089: 6, AR060: 5, AR053: 4, AR104: 4, AR033: 3, AR055: 3, AR061: 2 L0777: 13, L0766: 6, L0803: 4, L0752: 4, L0769: 3, L0794: 3, L0747: 3, L0755: 3, L0805: 2, L0776: 2, L0655: 2, L0659: 2, H0547: 2, L0759: 2, L0596: 2, H0650: 1, S0360: 1, S0010: 1, H0150: 1, H0024: 1, H0051: 1, H0553: 1, H0090: 1, H0412: 1, L0761: 1, L0771: 1,		

						L0363: 1, L0804: 1, H0519: 1, S0122: 1, H0435: 1, H0658: 1, H0648: 1, L0740: 1, L0750: 1, L0757: 1, H0543: 1 and H0423: 1.		
HWMMQ47	915068	99	2 - 232	2274	Gly-41 to Gly-53, Gly-65 to Arg-77.	S0444: 5, S0358: 4, S0410: 4, S0406: 4, L0759: 4, L0604: 4, H0686: 3, H0728: 3, H0083: 3, H0659: 3, H0658: 3, L0747: 3, L0581: 3, H0657: 2, H0341: 2, H0484: 2; H0734: 2, H0550: 2, S0222: 2, H0052: 2, T0006: 2, S0364: 2, H0038: 2, H0413: 2, S0422: 2, L0768: 2, L0774: 2, L0775: 2, L0783: 2, H0690: 2, H0670: 2, H0648: 2, S0380: 2, L0757: 2, L0758: 2, L0588: 2, L0608: 2, L0601: 2, S0026: 2, H0170: 1, S0114: 1, H0381: 1, S0282: 1, H0638: 1, S0442: 1, S0360: 1, H0730: 1, H0735: 1,		

HBGNY08	915214	100	429 - 70	2275		H0373: 1 and H0617: 1.	14q11-q12	160760, 160760, 182600,
						S0045: 1, S0046: 1, S0132: 1, H0587: 1, H0559: 1, L0622: 1, H0486: 1, T0114: 1, T0082: 1, S0010: 1, H0421: 1, H0173: 1, H0231: 1, L0738: 1, H0569: 1, H0688: 1, H0428: 1, H0213: 1, H0166: 1, H0674: 1, H0616: 1, H0412: 1, H0625: 1, L0065: 1, S0438: 1, H0509: 1, H0131: 1, H0529: 1, L0763: 1, L0500: 1, L0769: 1, L0638: 1, L0764: 1, L0662: 1, L0766: 1, L0803: 1, L0632: 1, L0655: 1, L0543: 1, L5623: 1, L0664: 1, H0214: 1, H0732: 1, S0028: 1, L0741: 1, L0742: 1, L0754: 1, L0749: 1, L0752: 1, L0731: 1, S0436: 1, H0668: 1, H0136: 1 and H0352: 1.			

HODGH45	917394	101	567 - 941	2276	Arg-7 to Arg-12, Pro-77 to Asp-82.	H0615: 2 and S0052: 1.			600243, 600792, 601369, 602086, 602279, 602279
HWLKE58	917716	102	3 - 536	2277	Pro-1 to Val-11, Asp-25 to Glu-34, Arg-117 to Gln-122, Thr-147 to Arg-152, Glu-160 to Cys-172.	L0731: 7, L0605: 6, L0766: 4, L0655: 4, L0659: 4, L0756: 4, L0803: 3, H0648: 3, L0777: 3, S0358: 2, S0408: 2, L0021: 2, H0014: 2, T0010: 2, L0143: 2, H0641: 2, L0638: 2, L0662: 2, L0794: 2, L0776: 2, L0657: 2, L0809: 2, L0666: 2, L0663: 2, L0751: 2, L0755: 2, L0758: 2, L0588: 2, H0543: 2, H0170: 1, H0657: 1, S0212: 1, H0661: 1, H0663: 1, S0420: 1, S0360: 1, L0717: 1, L0586: 1, L0105: 1, H0318: 1, H0581: 1, H0052: 1, H0309: 1, L0157: 1,			

						L0471: 1, H0024: 1, H0354: 1, S0003: 1, H0328: 1, H0615: 1, H0169: 1, H0163: 1, H0090: 1, H0272: 1, T0041: 1, S0440: 1, S0142: 1, S0210: 1, L0372: 1, L0645: 1, L0764: 1, L0651: 1, L0656: 1, L0789: 1, L0665: 1, S0126: 1, H0682: 1, H0435: 1, H0659: 1, S0380: 1, H0518: 1, H0696: 1, L0439: 1, L0740: 1, L0746: 1, L0750: 1, L0779: 1, L0752: 1 and S0260: 1.		
HRADL40	919433	103	1 - 942	2278	Phe-1 to Arg-7, Arg-40 to Gly-46, Lys-96 to Ser-102, Cys-126 to Ala-131, Asp-260 to Leu-265, Arg-308 to Gly-314.	H0424: 5, H0550: 3, L0769: 3, L0601: 3, S0408: 2, H0592: 2, H0560: 2, L0761: 2, L0774: 2, L0806: 2, L0776: 2, H0659: 2, L0777: 2, L0780: 2, L0759: 2, H0136: 2, S0424: 2, H0170: 1, H0556: 1, H0341: 1, S0418: 1, S0356: 1, S0442: 1, S0360: 1,	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580,

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HOFMP73	919895	104	92 - 1129	2279	Ala-24 to Phe-30, Asn-42 to Trp-48, Val-57 to Leu-62, Ser-90 to Gln-96, Lys-104 to Cys-112, Gly-150 to Gly-159, Tyr-180 to Cys-186,	AR060: 2, AR061: 2, AR055: 1, AR089: 1, AR096: 1, AR033: 0, AR039: 0 H0415: 2 and H0414: 1.	8p22	148370, 238600, 238600, 238600, 238600, 600143, 601385,

					Pro-193 to Asp-210, Pro-220 to Ser-235, Ser-306 to Asp-313, Thr-339 to Ile-346.			602629
HOFMS02	920253	105	21 - 272	2280	Phe-24 to Glu-48.	H0415: 4		
HUVHD12	921707	106	1 - 666	2281	Tyr-44 to Trp-63, Thr-84 to Thr-90, Gln-111 to Tyr-116.	L0805: 9, L0747: 9, L0770: 8, L0794: 8, L0756: 8, H0271: 7, L0769: 5, L0748: 5, L0750: 5, H0305: 4, L0766: 4, L0804: 4, L0809: 4, H0265: 3, H0052: 3, H0051: 3, H0623: 3, L0803: 3, L0775: 3, H0556: 2, H0441: 2, H0486: 2, H0069: 2, H0050: 2, H0620: 2, S0051: 2, H0416: 2, S0036: 2, H0135: 2, S0002: 2, L0761: 2, L0768: 2, L0666: 2, H0144: 2, L0438: 2, L0439: 2, L0777: 2, S0114: 1, L0785: 1, S0001: 1, S0035: 1, H0402: 1, H0638: 1, H0580: 1, S0045: 1, S0046: 1, S0222: 1, H0333: 1, H0635: 1, H0036: 1,		

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			327 - 809			
		107				
	922191					
HMVDQ41						

HODGI03	922879	108	3 - 227	2283	Lys-1 to Trp-26, Lys-34 to Ile-42.	H0615: 2		
HODHD14	922955	109	1 - 174	2284		H0615: 3 and H0352: 1.		
HODDC03	925296	110	3 - 311	2285	Lys-10 to Arg-32.	H0328: 1 and H0615: 1.		
HVCAG04	925735	111	1368 - 781	2286			2q21-q22	133510, 133510,

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HCRCE02	925837	112	31 - 129	2287		L0756: 6, L0776: 2, L0744: 2, H0486: 1, H0327: 1, S0003: 1, H0090: 1, L0761: 1, L0662: 1, L0766: 1, L0518: 1, H0659: 1, H0670: 1, S0406: 1, L0777: 1, L0780: 1, L0605: 1, L0366: 1 and H0423: 1.		
HHERA91	926067	113	2028 - 2399	2288	Ser-59 to Leu-66, Leu-76 to Trp-87, Arg-92 to Gly-105.	AR053: 3, AR089: 3, AR096: 2, AR060: 2, AR033: 2, AR061: 1, AR104: 1, AR055: 0		
HAGDL82	928396	114	2 - 94	2289	Pro-21 to Ala-28.			
HWBDS34	930484	115	3 - 983	2290	Pro-18 to Leu-25, Asp-72 to Ser-82, Pro-97 to Gly-107, Leu-110 to Ser-137.	S0212: 4, H0580: 1, S0045: 1, H0351: 1, S0010: 1, S0003: 1, H0560: 1, S0002: 1 and L0604: 1.		
H6ESA39	933568	116	2 - 1150	2291	Ala-9 to Trp-14.	L0758: 4, H0556: 3, L0751: 3, S0408: 2, H0618: 2, L0768: 2, H0547: 2, H0660: 2, L0754: 2, L0779: 2,		

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HPCOR06	933678	117	147 - 281	2292	Val-18 to Glu-33.	H0659: 2 and L0777: 2.		
HTFNO06	933989	118	2 - 562	2293		L0794: 11, L0511: 11, L0748: 10, L0747: 8, L0499: 6, L0805: 6, L0509: 6, L0507: 5, L0502: 5, L0500: 5, L0766: 5, L0803: 5, L0508: 5, L0809: 5, L0751: 5, L0750: 5, L0752: 5, L0764: 4, L0662: 4, L0649: 4, L0493: 4, L0514: 4, H0670: 4, L0779: 4, H0445: 4, H0657: 3, H0036: 3, S0422: 3,		

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HODFY08	935520	119	130 - 339	2294	Arg-40 to Gln-45.	L0803: 4, H0615: 2, S6028: 1, L0521: 1, L0662: 1, L0794: 1 and L0756: 1.		
HRACK27	935717	120	3 - 1283	2295	Lys-121 to Arg-127.	H0039: 3, L0794: 2, H0650: 1, S0212: 1, S0358: 1, H0441: 1, H0587: 1, S0003: 1, H0494: 1, H0529: 1,		

HRACW30	940639	121	7 - 786	2296		L0766: 1, H0690: 1, H0539: 1, H0696: 1, H0555: 1, L0439: 1, L0779: 1 and S0242: 1.	2p12	147200, 178640, 216900
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S0464: 2, H0538: 2,
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L0387: 2, L0633: 2,
L0657: 2, L0518: 2,
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H0113: 1, H0376: 1,
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HOFOC32	941969	122	3 - 1502	2297	Thr-1 to Pro-6, Pro-57 to Thr-63, Arg-110 to Asp-115, Lys-147 to Pro-152, Met-221 to Cys-228, Tyr-254 to Cys-261, Lys-286 to Gly-295, Thr-315 to Gly-325, Ala-351 to Ser-356, Ile-380 to Gln-387, Gly-409 to Arg-419, Val-421 to Val-428.	AR053: 15, AR089: 14, AR033: 10, AR039: 9, AR096: 9, AR060: 9, AR055: 8, AR104: 7, AR061: 6 H0415: 1, H0438: 1, H0486: 1, H0581: 1, S0250: 1, H0616: 1, H0494: 1 and L0659: 1.	20q13.1-13.3	118504, 118504, 131242, 256540, 600281, 600281, 602235
HTTDM15	942511	123	2 - 670	2298	Glu-181 to Pro-189, Lys-211 to Arg-217.	AR052: 12, AR055: 11, AR053: 10, AR089:		

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HOVAY63	944031	124	589 - 449	2299	Lys-30 to His-47.	AR039: 13, AR104: 7, AR053: 6, AR089: 6, AR096: 6, AR052: 5, AR060: 5, AR033: 4, AR055: 4, AR061: 3 H0428: 3, H0545: 1 and L0754: 1.		
HDPFY41	946502	125	597 - 2024	2300	Trp-2 to Ile-8, Cys-31 to Asp-39, Glu-54 to Ser-61, Gln-63 to Lys-70, Arg-79 to Arg-85,	AR089: 19, AR096: 18, AR039: 11, AR053: 7, AR060: 6, AR055: 2, AR033: 1, AR061: 1, AR104: 1, AR052:		

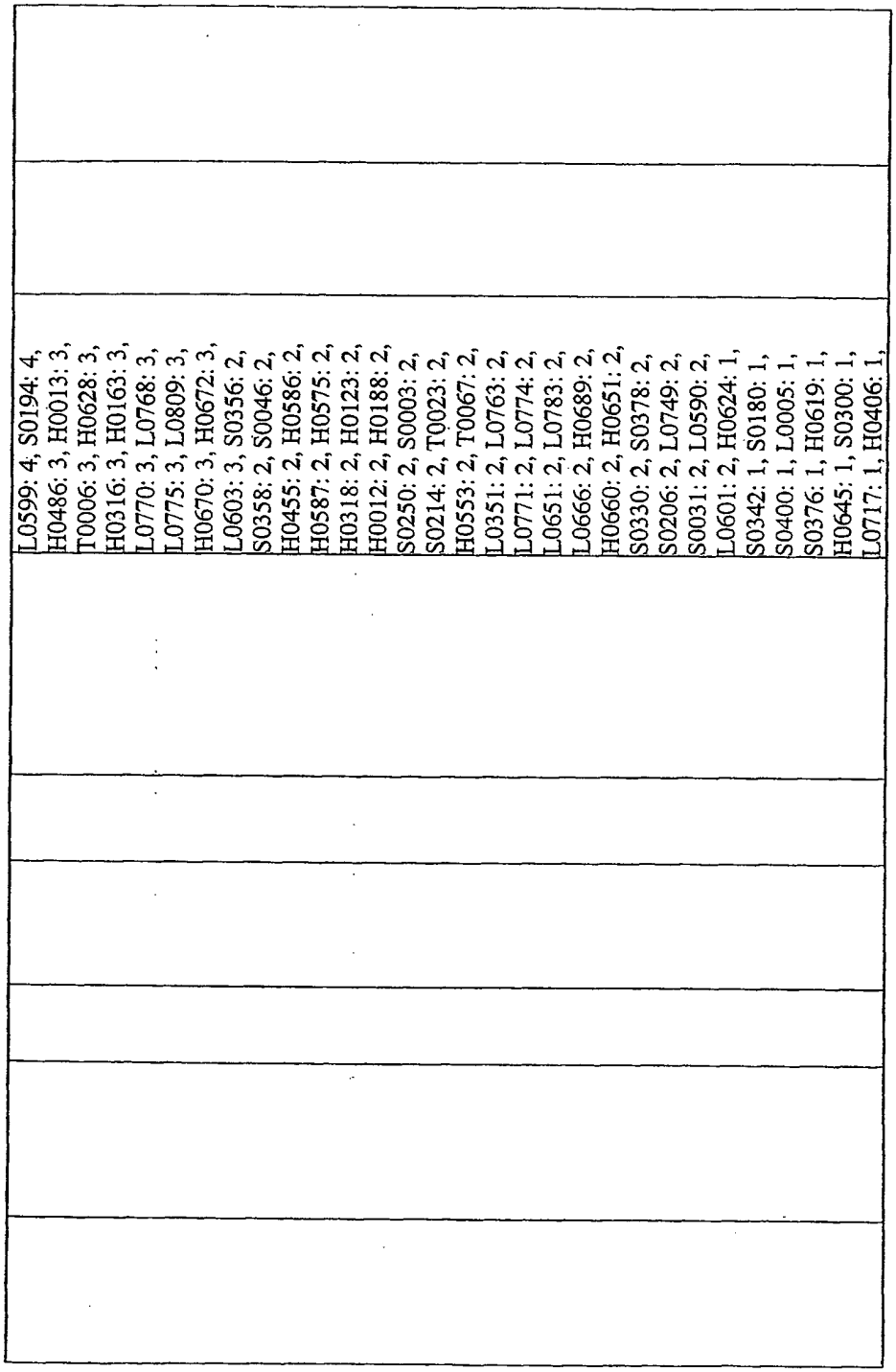
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HCOPB92	948608	126	99 - 260	2301	Tyr-37 to Ser-47.	H0670: 2		
HBJHO83	948708	127	171 - 389	2302	His-1 to Phe-8.	H0318: 1, H0150: 1 and L0385: 1.		
HWMEO44	948719	128	3 - 1343	2303	Met-1 to Leu-7, Ile-21 to Gln-33,	H0622: 2, H0422: 2, S0358: 1, H0497: 1,		

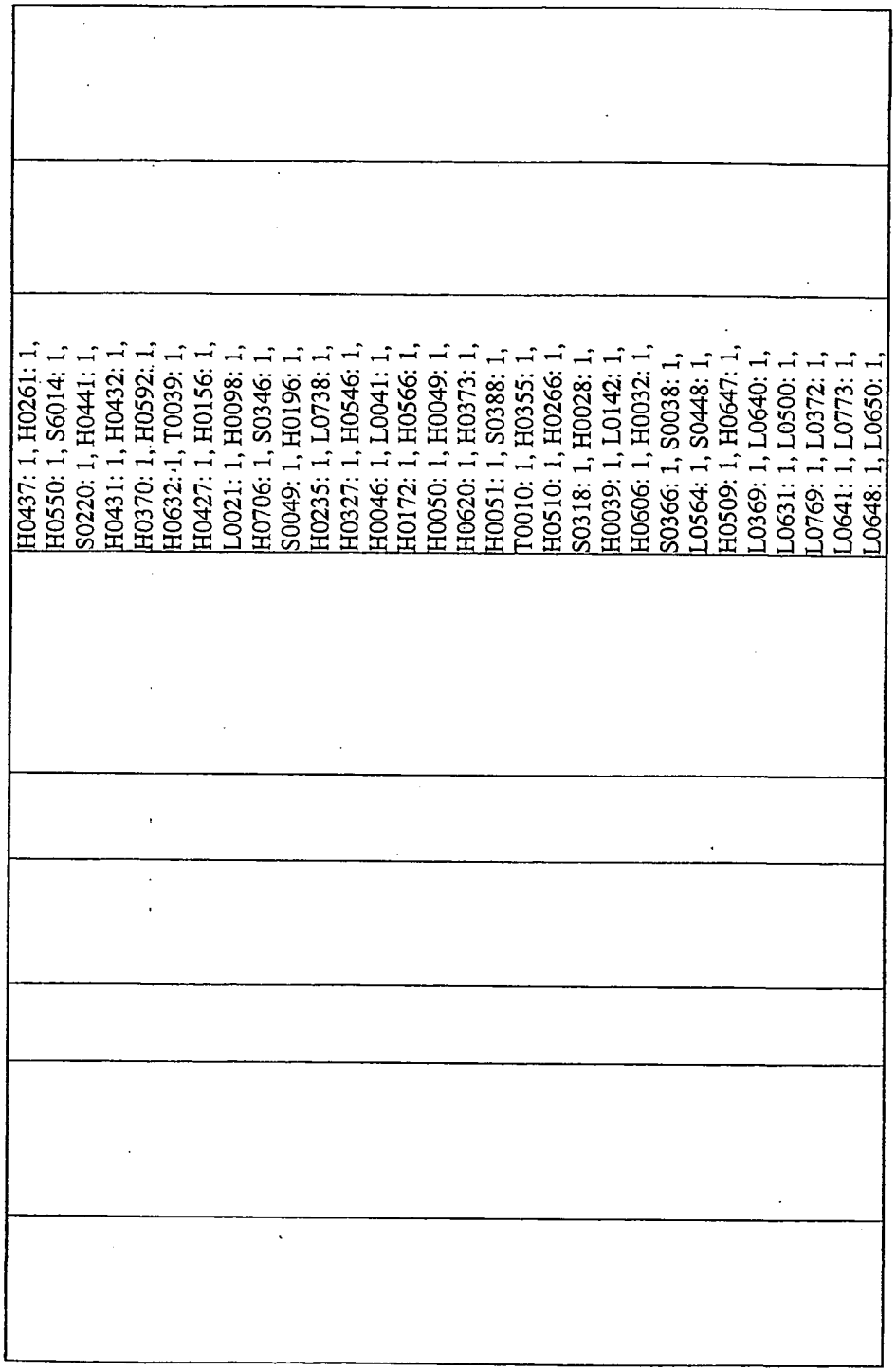
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HFXJA96	949001	129	1 - 240	2304		AR039: 36, AR052: 33, AR053: 19, AR104: 18, AR096: 17, AR033: 15, AR089: 13, AR061: 11, AR055: 11, AR060: 9 L0749: 3, L0757: 3, H0169: 2, L0769: 2, L0805: 2, L0754: 2, L0759: 2, H0685: 1, S0282: 1, L0717: 1, H0428: 1, H0068: 1, S0422: 1, L0648: 1, L0521: 1, L0794: 1, L0803: 1, L0776: 1, L0656: 1, L0809: 1, L0790: 1, L0665: 1, S0148: 1, L0438: 1, H0659: 1, H0648: 1, L0748: 1, L0747: 1,		

						L0750: 1, L0752: 1, H0543: 1 and S0412: 1.		
HTLGV19	949574	130	3 - 758	2305	Tyr-10 to Gly-19, Pro-55 to Lys-72, Glu-89 to Ala-95, Asp-107 to Gly-113, Arg-140 to Thr-149.	AR061: 4, AR096: 3, AR089: 3, AR055: 3, AR060: 2, AR104: 2, AR039: 2, AR033: 1, AR053: 1 H0555: 2, S0040: 1, S0444: 1, H0619: 1, H0618: 1, H0620: 1, H0284: 1 and H0063: 1.		
HMSAC18	950257	131	1214 - 297	2306		AR052: 11, AR089: 5, AR053: 5, AR096: 4, AR060: 4, AR061: 4, AR039: 4, AR033: 3, AR055: 3, AR104: 3 S0007: 3, L0758: 3, S0382: 2, L0805: 2, L0776: 2, H0666: 2, L0748: 2, S6024: 1, H0341: 1, H0331: 1, H0628: 1, H0038: 1, S0002: 1, L0770: 1, L0662: 1, L0766: 1, L0522: 1, L0659: 1, L0663: 1, H0519: 1, H0659: 1, L0602: 1, L0754: 1, L0749: 1, L0779: 1 and L0731: 1.		
HAPRB43	950475	132	3 - 536	2307	Phe-25 to Lys-31,	AR060: 10, AR055: 6,		

					Pro-60 to Lys-82, Tyr-122 to Asp-131, Lys-137 to Leu-144.	AR096: 6, AR061: 5, AR089: 4, AR033: 3, AR104: 3, AR052: 3, AR039: 3, AR053: 3 L0595: 7, L0803: 4, L0599: 4, S0356: 2, H0652: 2, L0771: 2, L0756: 2, L0779: 2, S0376: 1, H0486: 1, H0013: 1, H0575: 1, H0024: 1, H0356: 1, H0328: 1, L0369: 1, L0642: 1, L0794: 1, L0804: 1, L0809: 1, L0663: 1, L0665: 1, H0670: 1, H0648: 1, S0330: 1, L0752: 1, S0434: 1 and H0506: 1.	
HCCMD55	956895	133	199 - 17	2308	Gln-7 to Lys-23, Gln-49 to Glu-54.	AR055: 3, AR089: 3, AR053: 2, AR060: 2, AR039: 2, AR061: 1, AR033: 1, AR096: 1, AR104: 1, AR052: 0 S0358: 13, H0617: 8, S0444: 4, S0408: 2, S0374: 2, H0484: 1, S0376: 1, S0360: 1, S0410: 1, H0618: 1, H0231: 1, H0615: 1, S0368: 1, H0606: 1,	

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HKBAL08	958219	134	108 - 1	2309	Leu-28 to Phe-35.			
HKADF15	960658	135	1 - 1551	2310	Ala-3 to Gly-12, Gly-23 to Ser-46, Arg-91 to Gly-97, Val-105 to Ala-116, Ser-173 to His-180, Gly-190 to Tyr-206, Lys-280 to Lys-285, Arg-347 to Asp-352, Glu-403 to Lys-410, Ser-430 to Phe-442.	L0747: 24, L0754: 18, H0309: 12, H0545: 12, H0031: 12, L0439: 11, H0428: 10, L0755: 10, H0251: 9, S0126: 9, L0744: 8, L0757: 8, L0588: 8, S0360: 7, S0010: 7, S0051: 7, H0252: 7, H0135: 7, L0361: 7, S0212: 6, H0544: 6, H0687: 6, H0494: 6, L0438: 6, H0658: 6, L0748: 6, L0752: 6, L0591: 6, H0662: 5, L0731: 5, L0759: 5, S0192: 5, S0040: 4, S0222: 4, H0081: 4, H0024: 4, H0644: 4, H0124: 4, H0551: 4, L0662: 4, L0659: 4, L0565: 4, L0751: 4, L0750: 4,	10q25.3-q26.2	263700, 601969, 601969


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HOGES55	961337	136	107 - 1483	2311	Ser-14 to Ser-23, His-30 to Ser-45, Gly-55 to Arg-67, Leu-71 to Leu-76, Leu-97 to Glu-102, Ser-118 to Pro-129, Pro-159 to Ala-179, Leu-189 to Ser-204.	L0803: 4, L0663: 3, S0420: 2, L0666: 2, H0435: 2, L0748: 2, L0777: 2, S0116: 1, S0132: 1, H0370: 1, L0021: 1, S0422: 1, L0664: 1, H0658: 1, S0328: 1, L0749: 1, S0436: 1 and L0097: 1.		
HKZAJ14	961458	137	135 - 1028	2312	Asn-4 to Lys-9, Arg-37 to Pro-42, Pro-79 to Ile-91, Asp-144 to Trp-155, Asp-189 to Gln-194, Ser-199 to Ser-204,	L0777: 3, L0754: 2, H0689: 1, H0660: 1 and L0755: 1.		

					Leu-208 to Asn-214, Leu-225 to Leu-230, Thr-234 to Lys-245, Asn-251 to Leu-260, Glu-285 to Asp-290.			
HLHAE14	962362	138	1915 - 1826	2313	Gly-15 to Glu-26.	L0748: 2, L0749: 2, H0024: 1 and H0051: 1.		
HBCJN16	965190	139	2 - 346	2314	Pro-15 to Arg-20, Leu-31 to Asp-36, Gly-50 to Glu-65, Phe-74 to Gly-81.			
HCGAF29	965372	140	2 - 1660	2315	Ser-1 to Gly-9, Ile-50 to Thr-55.	H0449: 1, H0393: 1, H0691: 1, H0547: 1 and H0711: 1.	1p12-p13	102770, 188540, 600234, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HAHEF81	967634	141	716 - 339	2316		L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1,		

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HBJAB02	967807	142	2 - 1267	2317	Val-35 to Leu-44, Gln-60 to Arg-67, Glu-72 to Asn-84, Glu-131 to Cys-152, Tyr-162 to Gly-175, Gly-184 to Gly-189, Ser-191 to Gly-223, Asp-261 to Arg-266, Asn-270 to Glu-275, Gln-282 to His-287, Tyr-302 to Asn-310, Lys-321 to Arg-327, Lys-330 to Ala-339, Lys-385 to Gly-391, Arg-402 to Lys-422.	L0794: 3, H0255: 2, H0318: 2, H0251: 2, L0764: 2, L0628: 2, L0665: 2, H0658: 2, L0361: 2, H0265: 1, H0685: 1, H0657: 1, H0483: 1, S0420: 1, S0358: 1, S0132: 1, S0222: 1, T0082: 1, H0150: 1, H0083: 1, S0214: 1, H0252: 1, H0628: 1, T0041: 1, S0344: 1, H0529: 1, L0520: 1, L0535: 1, L0662: 1, L0387: 1, L0375: 1, L0518: 1, L0666: 1, L0663: 1, H0519: 1, H0670: 1, H0660: 1, L0747: 1, L0777: 1, L0601: 1, S0276: 1, H0423: 1 and H0422: 1.	5q23.3-q31.2	121050, 131400, 153455, 159000, 179095, 180071, 181460, 192974, 192974, 600807, 601596, 602089
HOUCR01	968171	143	2 - 994	2318	Leu-98 to Cys-107, Ala-135 to Ala-142, Pro-233 to Lys-238, Gln-246 to Ala-257, Ser-294 to His-302.	AR033: 7, AR104: 7, AR055: 4, AR060: 3, AR096: 3, AR089: 3, AR061: 3, AR053: 2, AR052: 2, AR039: 1		

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HDTIG18	968454	144	334 - 1011	2319	Arg-1 to Gly-8, Pro-10 to Ser-72, Thr-80 to Gln-86, Pro-96 to Ala-102, Ser-137 to Val-146, Leu-207 to Asp-214, Gln-219 to Thr-226.	L0766: 2, L0776: 2, L0438: 2, S0114: 1, S0007: 1, H0393: 1, S0222: 1, H0486: 1, H0009: 1, H0012: 1, H0014: 1, H0083: 1, H0687: 1, S0003: 1, H0628: 1, T0067: 1, H0100: 1, S0344: 1, H0521: 1, S0032: 1, L0748: 1, L0740: 1,	2q32.1	

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HBLGD30	968949	145	3951 - 1765	2320	Glu-20 to Lys-33, Ser-96 to His-109, Asn-147 to Val-166, Glu-188 to Ala-194, Ala-231 to Lys-240, Ala-267 to Lys-283, Met-291 to Gly-297, Arg-332 to Thr-338, Thr-365 to Tyr-377, Gln-381 to Ser-389, Glu-406 to Lys-417, Arg-462 to Glu-467, Ile-525 to Asp-535, Leu-595 to Glu-615, Phe-667 to Tyr-675, Gln-722 to Gly-729.	H0574: 6, L0362: 6, H0510: 5, L0666: 5, L0665: 4, S0358: 3, H0670: 3, H0013: 2, H0421: 2, H0046: 2, S0438: 2, L0775: 2, L0746: 2, L0756: 2, L0581: 2, H0431: 1, H0004: 1, H0014: 1, H0015: 1, S0338: 1, S0003: 1, L0456: 1, S0440: 1, L0770: 1, L0803: 1, L0525: 1, L0607: 1, L0664: 1, H0593: 1, H0683: 1, H0658: 1, L0755: 1 and S0276: 1.	3q23-q25	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 222900, 276902, 601199, 601199, 601199, 601682
HFIHK04	969387	146	580 - 825	2321	Pro-16 to Pro-21, Ser-33 to Gly-38.	L0747: 5, H0318: 3, H0617: 3, L0749: 3, L0776: 2, H0483: 1, H0615: 1, H0039: 1, L0055: 1, L0769: 1, L0521: 1, L0766: 1, L0375: 1, L0809: 1,		

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HOFMS34	973010	149	27 - 1019	2324	Gly-9 to Gln-19, Pro-36 to Gly-41, Ala-112 to Ala-123, Asp-151 to Arg-157, Ala-199 to Asp-211.	L0599: 2, S0134: 1, S0222: 1, H0642: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0596: 1, H0083: 1, S6028: 1, H0687: 1, S0250: 1, S0003: 1, S0214: 1, H0428: 1, H0622: 1, H0644: 1, H0038: 1, H0269: 1, T0042: 1, H0646: 1, L0369: 1, L0762: 1, L0796: 1, L0800: 1, L0662: 1, L0794: 1, L0774: 1, L0775: 1, L0659: 1, L0783: 1, L0793: 1, H0683: 1, H0435: 1, H0648: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, H0696: 1, S0044: 1, H0631: 1, L0749: 1, L0753: 1, L0757: 1, S0434: 1 and L0485: 1.	AR053: 2, AR033: 2, AR089: 2, AR060: 2, AR096: 2, AR052: 1, AR061: 1, AR055: 1, AR039: 1, AR104: 0 H0415: 5		

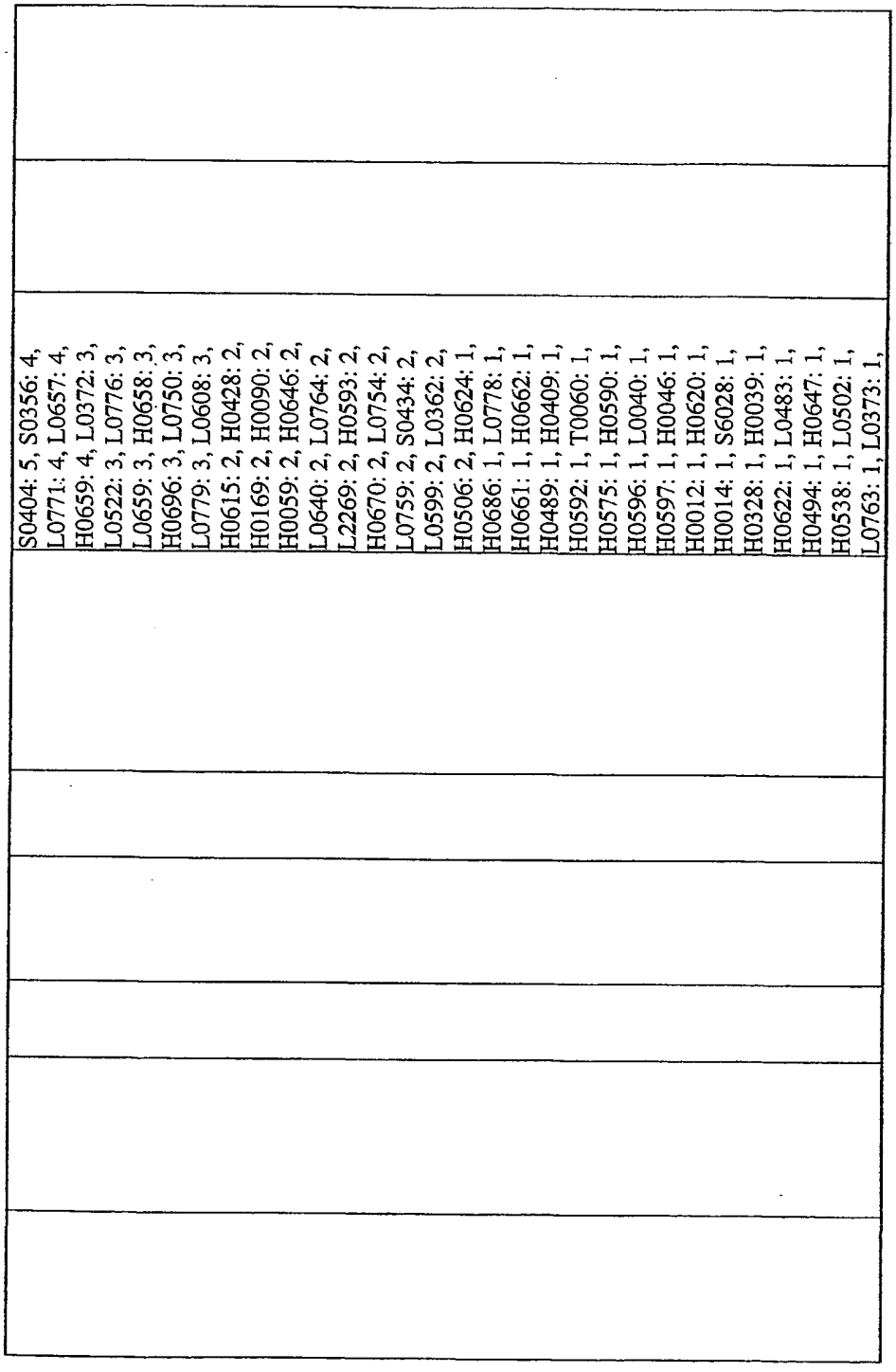
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HTLHN94	974667	151	306 - 812	2326	His-8 to Gly-18.	AR039: 26, AR055: 18, AR033: 15, AR053: 14, AR052: 13, AR089: 12, AR060: 11, AR104: 11, AR096: 10, AR061: 8 H0521: 185, H0522: 75, H0046: 37, S0360: 25, H0580: 24, H0585: 22, H0575: 22, L0599: 21, H0657: 16, H0255: 15, H0486: 15, L0664: 15, H0641: 14, S0376: 12, H0581: 12, L0751: 12, H0650: 11, H0087: 10, S0002: 10, H0638: 9, H0264: 9, H0509: 9, L0769: 9, H0445: 9, H0656: 8, S0358: 8, H0617: 8, L0748: 8, L0750: 8, L0659: 7, H0658: 7, H0672: 7,			

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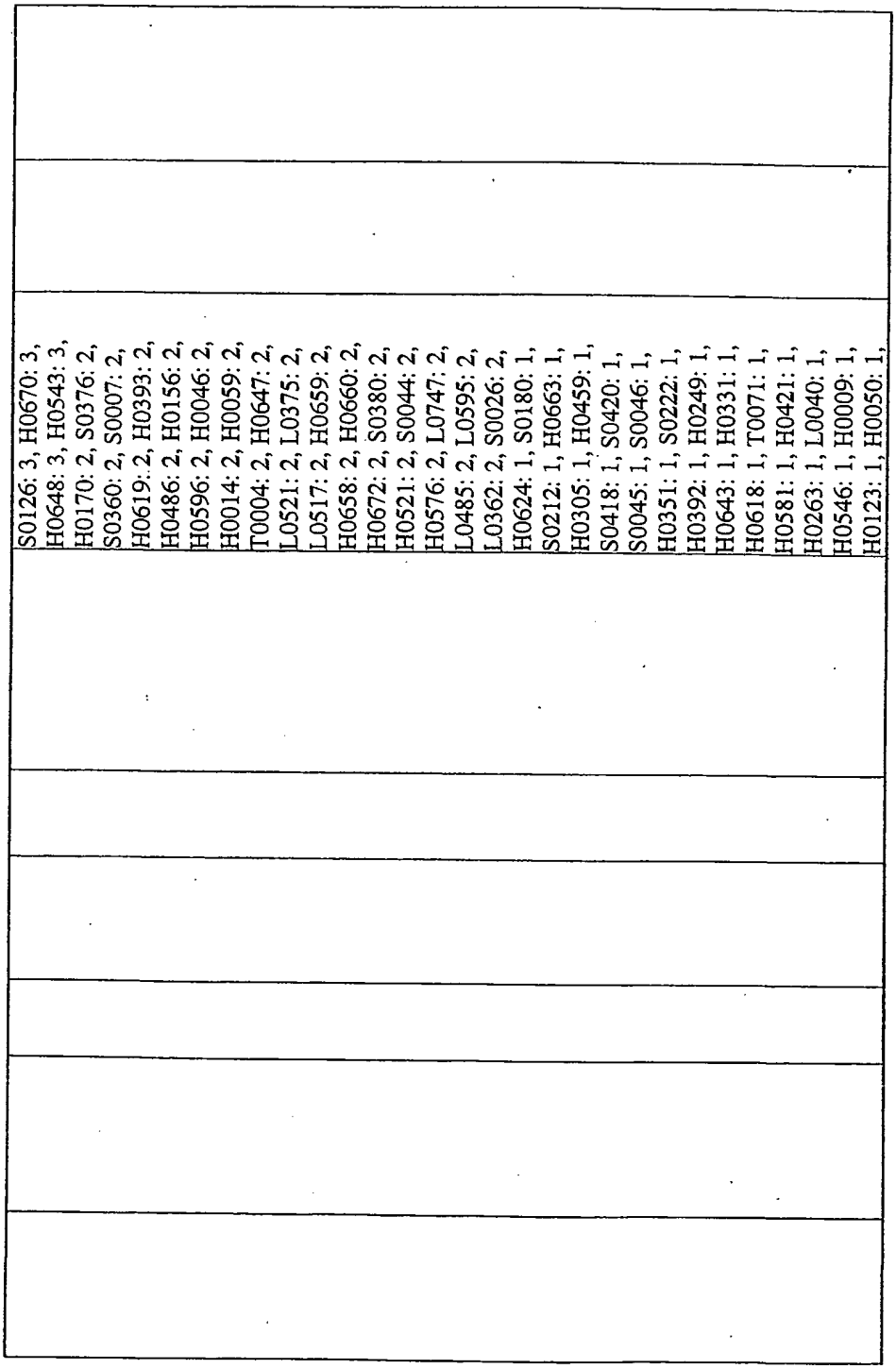
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HWLHW86	975771	153	5 - 1186	2328	Ser-1 to Gly-16, Pro-26 to Gly-31, Thr-40 to Gln-46, Pro-59 to Ser-66, Pro-69 to Ser-80, Val-120 to Cys-126, Lys-157 to Gly-166, Gln-169 to Tyr-175, Arg-205 to Glu-212, His-230 to Leu-242, Gln-277 to Asn-285.		AR060: 12, AR039: 8, AR089: 7, AR096: 1, AR061: 1, AR033: 0, AR053: 0, AR055: 0 S0408: 32, S0444: 21, S0442: 20, S0360: 20, L0665: 19, S0406: 18, S0436: 18, S0358: 17, L0666: 17, S0440: 15, L0752: 13, L0663: 11, S0376: 10, S0374: 10, L0662: 9, L0646: 8, H0672: 8, L0596: 8, L0601: 8, S0354: 6, L0664: 6, H0648: 6, L0777: 6, L0774: 5,	4q	


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HOFNM53	976051	154	3 - 1589	2329	Val-9 to Glu-22, Leu-48 to Gln-53, Ser-64 to Asn-74, Pro-76 to Arg-83, Thr-118 to Gly-126.	AR104: 6, AR053: 5, AR089: 5, AR033: 5, AR039: 4, AR055: 4, AR060: 4, AR096: 3, AR061: 1, AR052: 0 H0415: 4		
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HHFOE18	976216	156	1 - 1275	2331	Thr-1 to Thr-33.	L0659: 7, H0486: 4,		

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HHFNH27	976968	157	11 - 604	2332	Asp-1 to Ser-12, Glu-15 to Ala-29, Glu-40 to Lys-56, Ile-131 to Asp-150, Leu-177 to Asp-183.	AR052: 169, AR096: 135, AR053: 92, AR089: 91, AR060: 83, AR033: 59, AR104: 54, AR039: 40, AR061: 37, AR055: 29 H0341: 9, H0657: 7, S0358: 4, H0251: 4, H0428: 4, L0748: 4, L0750: 4, H0445: 4, S0116: 3, H0333: 3, H0318: 3, T0041: 3,	12q23-q24.1	124200, 147440, 160781, 181405, 235800, 261600, 261600, 600175, 601406, 601620, 601621


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HMMBZ81	977264	158	551 - 357	2333		H0444: 1		
HSLGF32	977704	159	2 - 301	2334	Arg-1 to Arg-45, Glu-47 to Arg-77, Asp-79 to Ser-100.	L0748: 6, L0777: 4, H0685: 2, L0599: 2, H0575: 1, S0010: 1, H0421: 1, H0169: 1, H0264: 1, H0413: 1, L0769: 1, L0646: 1, L0803: 1, L0653: 1, L0776: 1, L0792: 1, H0659: 1, H0658: 1, S3014: 1, S0028: 1, L0751: 1 and L0779: 1.		
HEEAH23	978593	160	1 - 123	2335		H0549: 1, S0222: 1, H0266: 1, H0428: 1 and S0370: 1.		
HODFU73	978812	161	179 - 652	2336	Gly-85 to His-97, Gly-125 to Gly-130.	L0519: 5, L0756: 5, L0731: 5, L0665: 4, L0717: 3, S0474: 3, L0794: 3, L0663: 3, H0547: 3, H0682: 3,	2p14-p13	203800, 602404

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HNBUA49	978998	162	1399 - 353	2337		L0754: 3, L0591: 3, H0659: 2, L0748: 2, H0663: 1, H0662: 1, S0354: 1, S0376: 1, L0021: 1, S6028: 1, H0616: 1, T0067: 1, S0422: 1, L0520: 1,	

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HVVDU73	979346	163	2 - 1603	2338	Val-1 to Gly-7, Ala-10 to Ser-15, Ala-32 to Ala-75, Pro-93 to Asp-101, Arg-107 to Gln-117, Glu-133 to Ser-138, Ile-157 to Pro-170, Arg-181 to Glu-192, Ser-200 to Glu-209, Glu-239 to Val-249, Glu-287 to Glu-305, Ala-320 to Arg-328, Pro-363 to Arg-389, Lys-396 to Leu-406, Arg-433 to Gly-442, Ser-470 to Asn-481, Arg-498 to Ser-528.	H0046: 9, H0494: 6, S0358: 4, H0622: 2, H0662: 1, S0356: 1, H0549: 1, H0575: 1, H0081: 1, H0646: 1, L0761: 1, L0800: 1, H0672: 1, S0152: 1, H0521: 1, H0555: 1, L0748: 1, L0777: 1 and L0601: 1.	1q25.1-q32.3	
HHESX72	979468	164	136 - 480	2339	Tyr-28 to Ser-34, Leu-76 to Gln-83.	L0748: 3, S0380: 2, H0581: 1, H0477: 1, S0126: 1 and H0543: 1.			

HOCPY88	979547	165	136 - 939	2340	Arg-38 to Lys-44, Lys-65 to Pro-72, Pro-96 to Tyr-102, Val-117 to Tyr-124, Leu-140 to Gly-154, Pro-167 to Trp-174, Val-180 to Tyr-185, Pro-191 to Tyr-196, Pro-199 to Thr-204, Gln-238 to Ala-244, Val-255 to Val-262.	H0553: 2, H0519: 2, L0731: 2, S0192: 2, S0134: 1, H0306: 1, H0375: 1, H0292: 1, S0144: 1, L0794: 1, L0766: 1, L0775: 1, L0809: 1, H0144: 1, S0126: 1, H0660: 1, H0672: 1, H0521: 1 and S0260: 1.	2p13	203800, 602404
HOGDC64	979666	166	164 - 769	2341		H0521: 53, S0002: 17, L0809: 13, S0360: 12, H0522: 12, H0580: 11, L0766: 11, S0426: 10, S0278: 9, H0618: 9, L0758: 8, H0556: 7, H0581: 7, L0439: 7, L0731: 7, H0253: 6, H0038: 6, L0771: 6, L0794: 6, L0805: 6, L0518: 6, L0666: 6, L0748: 6, H0553: 5, L0764: 5, L0659: 5, L0779: 5, H0265: 4, H0650: 4, S0408: 4, S0344: 4, L0667: 4, L0776: 4, L0759: 4, L0596: 4, L0604: 4, L0362: 4, H0486: 3,	17q21-q23	106180, 109270, 109270, 109270, 109270, 109270, 113705, 113705, 138700, 139250, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 150200,

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HSIEA14	980139	167	456 - 683	2342	Pro-46 to Lys-53.	AR039: 4, AR096: 1, AR053: 1, AR060: 1, AR089: 1, AR033: 1, AR061: 1, AR055: 0, AR104: 0 H0036: 1		
HSPSY43	980269	168	883 - 1659	2343	Leu-32 to Glu-41, Asn-67 to His-72, Glu-96 to Thr-105, Phe-122 to Leu-130, Glu-151 to Glu-157, Val-165 to Gly-171, Arg-185 to Ile-196, Ser-205 to Leu-216, Leu-220 to Ala-225, Tyr-235 to Leu-243.	L0439: 17, H0013: 16, T0010: 13, S0010: 10, H0052: 10, L0754: 10, S0222: 9, L0743: 8, S0001: 7, H0644: 6, H0144: 6, L0662: 5, L0659: 5, H0547: 5, H0658: 5, L0742: 5, L0591: 5, H0657: 4, S0007: 4, H0441: 4, L0351: 4, S0344: 4, L0741: 4, S0046: 3, H0351: 3, H0575: 3, S0346: 3, H0178: 3,	9q33-q34	125270, 125270, 128100, 137350, 146150, 191100, 215700, 223360, 223900, 253800, 253800, 268900, 601850

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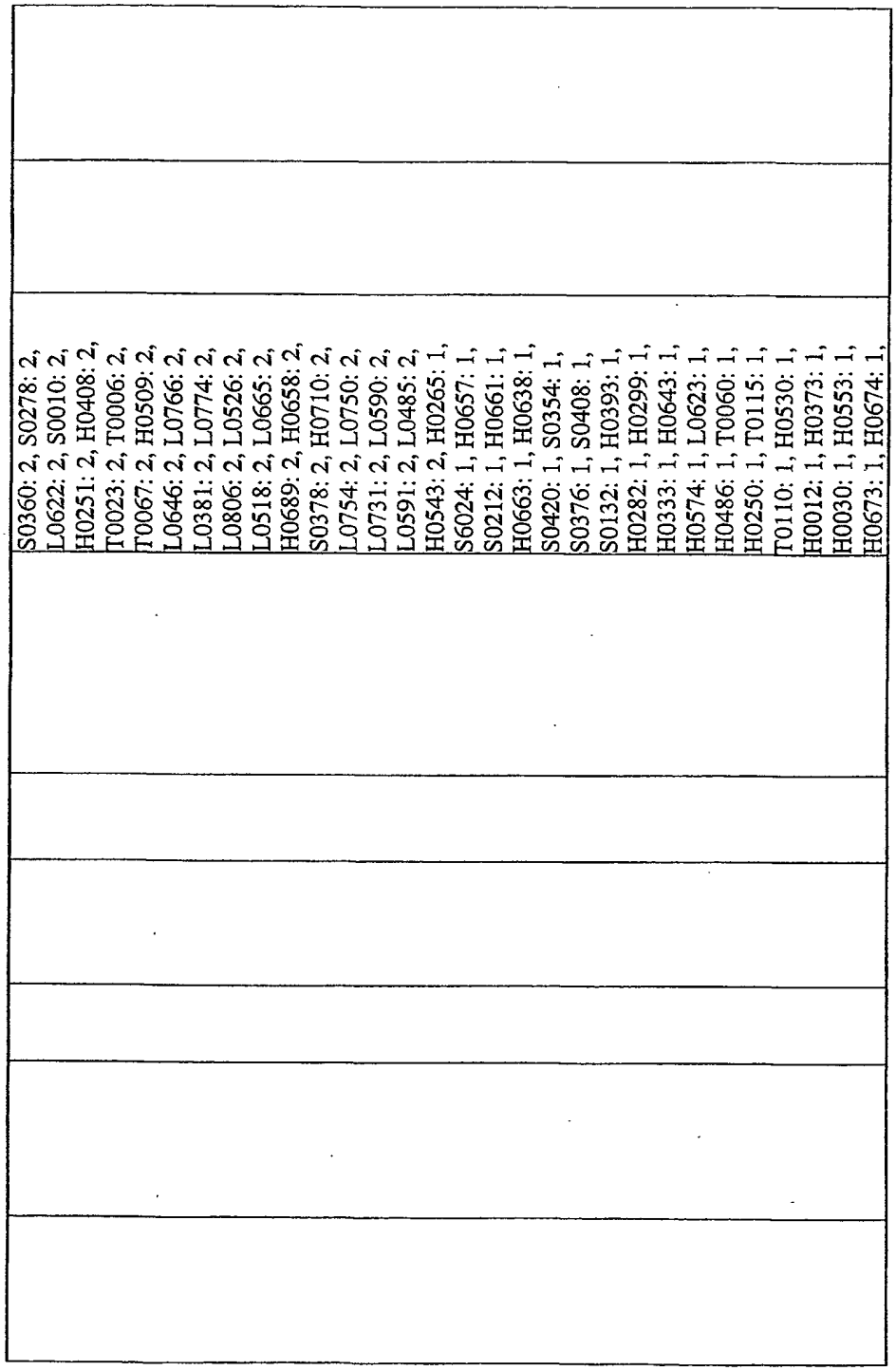
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HSXBH24	981029	169	220 - 2199	2344	Ser-11 to Gly-21, Cys-47 to Leu-61, Ser-82 to Tyr-88, Cys-182 to Tyr-187, Trp-268 to Asp-285.	AR089: 2, AR060: 2, AR033: 2, AR096: 1, AR061: 1, AR039: 0, AR104: 0, AR055: 0, AR053: 0 H0261: 1, H0370: 1, H0559: 1, H0013: 1,	

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HOFAE61	981108	170	2 - 505	2345	Lys-10 to Gly-21.	H0415: 1 and H0414: 1.		
HCFOF82	981272	171	2 - 901	2346	Trp-1 to Lys-6.	AR096: 3, AR033: 2, AR053: 2, AR089: 2, AR039: 2, AR060: 2, AR104: 1, AR061: 1, AR055: 1, AR052: 0 L0766: 3, L0777: 3, L0768: 2, L0748: 2, L0757: 2, L0759: 2, L0596: 2, T0060: 1, S0010: 1, H0251: 1, H0594: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0674: 1, H0040: 1, H0412: 1, L0763: 1, L0803: 1, L0653: 1, L0666: 1, L0664: 1, S0028: 1, L0751: 1, H0423: 1 and H0506: 1.		
HOCMT79	981309	172	421 - 1431	2347	Thr-1 to Asp-12, Arg-27 to Asp-35, Arg-84 to Asp-89, Leu-93 to Thr-99, Pro-104 to Lys-113,	H0618: 12, H0052: 6, L0439: 6, H0253: 5, L0665: 4, H0013: 3, L0766: 3, L0775: 3, L0664: 3, L0742: 3,	5p	

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HKAEI03	981319	173	1 - 405	2348			H0620: 1, H0615: 1, H0063: 1 and H0494: 1.	1p11.1-13.1	102770, 201810, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HOCPO31	981593	174	330 - 470	2349			H0087: 2, H0660: 1 and H0672: 1.		
HAOTG88	981606	175	229 - 2	2350	Asn-1 to Lys-6.		H0686: 1, H0685: 1 and S0053: 1.		
HVCAH21	981768	176	2 - 616	2351	Ala-1 to Ala-12, Cys-57 to Tyr-65, Glu-76 to Asp-82, Arg-100 to Pro-105, Asp-110 to Pro-126, Cys-129 to Ala-139, Lys-147 to Pro-172, Pro-182 to Asp-188, Arg-199 to Met-205.		L0751: 6, L0588: 6, L0748: 5, L0758: 5, S0007: 4, S0438: 4, L0763: 4, L0776: 4, L0759: 4, L0604: 4, L0594: 4, L0362: 4, S0358: 3, S0410: 3, H0575: 3, H0617: 3, S0440: 3, L0775: 3, L0809: 3, S0374: 3, L0742: 3, H0656: 2,	8q13.3	214400, 600415, 601653, 601653, 602476


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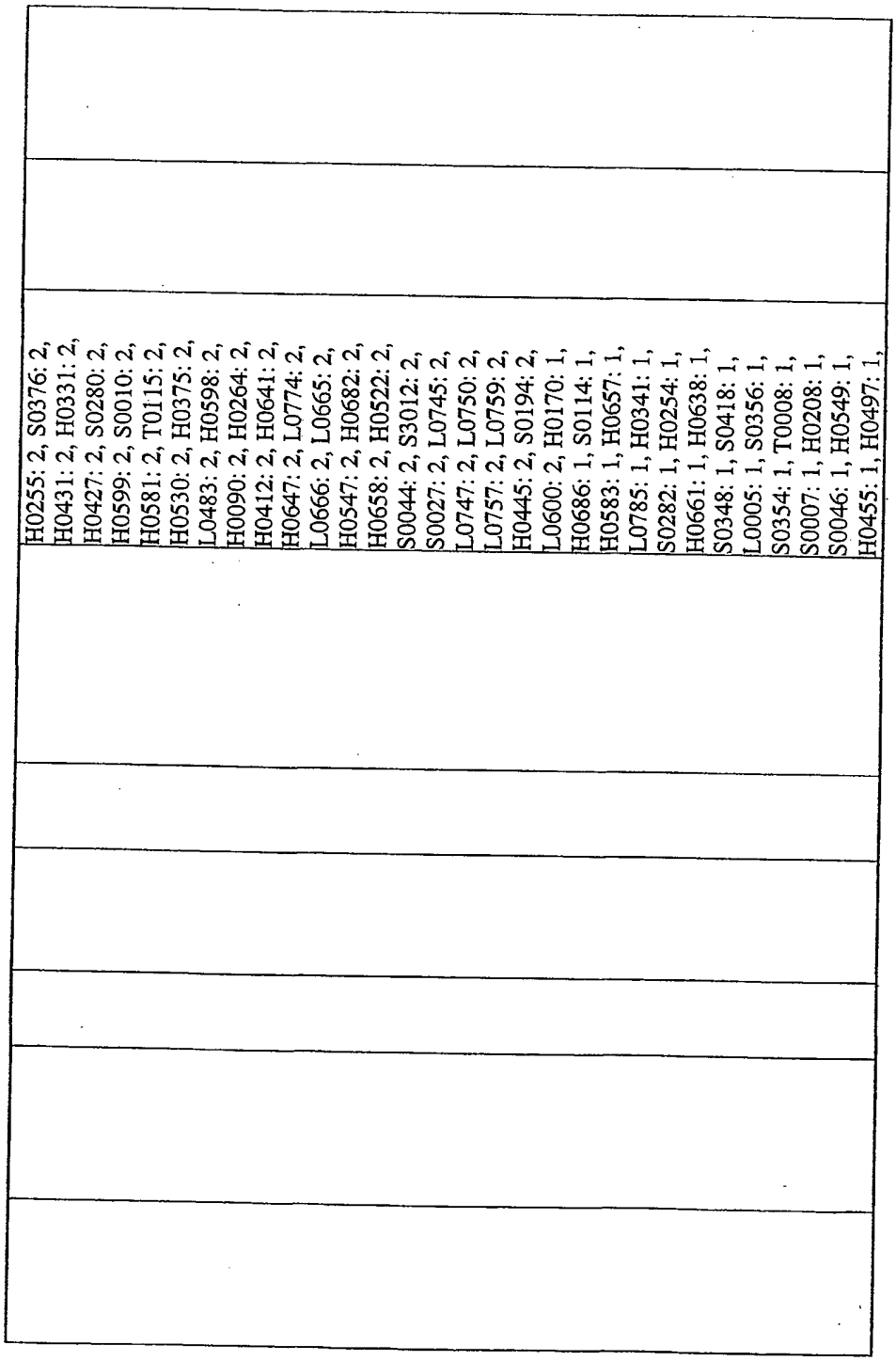
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HFPCK56	981812	177	1946 - 1818	2352	AR096: 12, AR052: 11, AR053: 10, AR033: 10, AR089: 9, AR055: 9, AR104: 8, AR060: 8, AR061: 5, AR039:		

5 L0809: 7, H0658: 6, L0748: 6, S0222: 5, L0794: 5, L0776: 5, L0756: 5, L0752: 5, L0731: 5, L0770: 4, L0662: 4, L0743: 4, L0439: 4, L0751: 4, L0754: 4, L0747: 4, L0759: 4, H0013: 3, L0769: 3, L0805: 3, L0789: 3, L0664: 3, L0740: 3, L0777: 3, L0753: 3, L0758: 3, H0333: 2, H0052: 2, H0545: 2, H0428: 2, L0483: 2, L0455: 2, H0509: 2, L0763: 2, L0771: 2, L0803: 2, L0804: 2, L0806: 2, L0527: 2, L0783: 2, L0666: 2, L0663: 2, S0152: 2, S0146: 2, L0744: 2, L0745: 2, L0603: 2, H0686: 1, S0116: 1, H0255: 1, S0418: 1, S0408: 1, H0645: 1, H0393: 1, L0717: 1, H0351: 1, H0370: 1, H0574: 1,

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HAOSJ58	981859	178	3 - 482	2353	His-1 to Val-14.	L0740: 4, L0749: 4, L0794: 3, L0766: 3, H0686: 2, L0662: 2, L0747: 2, H0663: 1, S0420: 1, S0358: 1, L0717: 1, H0013: 1, L0638: 1, L0761: 1, L0364: 1, L0803: 1, L0657: 1, L0526: 1,	

								L0787: 1, L0665: 1, L0438: 1, L0759: 1 and L0592: 1.		
HOPIT48	981862	179	348 - 217	2354				H0685: 1, L0623: 1 and H0684: 1.		
HCFAV61	981914	180	3 - 1091	2355	Arg-1 to Ile-7, Gly-22 to Lys-42, Ser-52 to Glu-59, Leu-80 to Asp-87, Lys-107 to Thr-115, Trp-123 to Glu-131, Tyr-148 to Glu-155.			L0766: 5, L0747: 4, L0750: 4, L0777: 4, S0046: 2, H0486: 2, L0769: 2, L0805: 2, H0547: 2, L0749: 2, L0752: 2, L0759: 2, L0590: 2, S0026: 2, H0624: 1, H0686: 1, H0341: 1, S0358: 1, S0360: 1, S0045: 1, H0549: 1, H0587: 1, L0157: 1, H0566: 1, H0057: 1, H0320: 1, H0051: 1, H0687: 1, S0003: 1, H0428: 1, H0090: 1, L0794: 1, L0774: 1, L0806: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1, L0791: 1, L4501: 1, L0666: 1, L0664: 1, H0701: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, H0478: 1, L0780: 1, L0755: 1,		

HPDWN44	981956	181	114 - 659	2356	Gln-79 to Tyr-86, Ile-96 to Ser-101, Pro-119 to Ser-126, Gln-162 to Gln-167.	L0731: 1, L0758: 1, H0595: 1, L0592: 1, H0653: 1, H0665: 1 and H0422: 1.	14	
						H0150: 26, S0003: 24, S0144: 14, S0278: 12, S0344: 12, L0748: 12, S0358: 10, H0046: 10, H0620: 10, S0214: 10, L0740: 9, H0521: 8, L0588: 8, H0545: 7, L0754: 7, H0575: 6, H0494: 6, S0126: 6, H0662: 5, H0031: 5, S0142: 5, L0752: 5, S0360: 4, H0309: 4, H0012: 4, H0687: 4, H0163: 4, H0038: 4, H0040: 4, H0672: 4, L0744: 4, L0755: 4, L0758: 4, L0599: 4, S0212: 3, H0580: 3, H0550: 3, T0082: 3, H0544: 3, H0024: 3, H0266: 3, H0428: 3, H0616: 3, T0067: 3, L0519: 3, L0532: 3, H0689: 3, S0380: 3, L0731: 3, S0026: 3, H0624: 2, S0040: 2,		


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H0431: 2, H0331: 2,
H0427: 2, S0280: 2,
H0599: 2, S0010: 2,
H0581: 2, T0115: 2,
H0530: 2, H0375: 2,
L0483: 2, H0598: 2,
H0090: 2, H0264: 2,
H0412: 2, H0641: 2,
H0647: 2, L0774: 2,
L0666: 2, L0665: 2,
H0547: 2, H0682: 2,
H0658: 2, H0522: 2,
S0044: 2, S3012: 2,
S0027: 2, L0745: 2,
L0747: 2, L0750: 2,
L0757: 2, L0759: 2,
H0445: 2, S0194: 2,
L0600: 2, H0170: 1,
H0686: 1, S0114: 1,
H0583: 1, H0657: 1,
L0785: 1, H0341: 1,
S0282: 1, H0254: 1,
H0661: 1, H0638: 1,
S0348: 1, S0418: 1,
L0005: 1, S0356: 1,
S0354: 1, T0008: 1,
S0007: 1, H0208: 1,
S0046: 1, H0549: 1,
H0455: 1, H0497: 1,

		H0574: 1, H0632: 1, H0486: 1, T0040: 1, T0060: 1, H0013: 1, H0069: 1, H0635: 1, H0156: 1, H0042: 1, H0036: 1, H0037: 1, S0346: 1, H0310: 1, H0251: 1, H0596: 1, H0597: 1, H0231: 1, H0050: 1, L0471: 1, H0099: 1, H0594: 1, H0267: 1, S0318: 1, H0364: 1, H0328: 1, H0622: 1, H0644: 1, H0674: 1, H0063: 1, H0268: 1, H0269: 1, H0059: 1, H0625: 1, S0440: 1, H0646: 1, H0649: 1, S0210: 1, L0762: 1, L0769: 1, L0796: 1, L0761: 1, L0773: 1, L0768: 1, L0364: 1, L0766: 1, L0803: 1, L0804: 1, L0653: 1, L0527: 1, L0657: 1, L0543: 1, H0519: 1, S0122: 1, H0365: 1, H0684: 1, H0659: 1, H0648: 1, S0328: 1, S0146: 1,				

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				2357	Gly-1 to His-11, Pro-26 to Ser-34, Gly-50 to Glu-67, Gly-86 to Pro-91.			
			16 - 372					
		182						
	982032							
HOVJY54								

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HLDOG74	982042	183	1 - 756	2358	Pro-37 to Ser-45, Asp-64 to Thr-69, Asp-151 to Gln-157, Arg-191 to Lys-196.	H0510: 1	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HE8MM52	982197	184	19 - 1146	2359	Gly-10 to Gly-16, Pro-25 to Gly-30.	AR033: 3, AR061: 3, AR096: 3, AR089: 3, AR055: 2, AR060: 2,		

					AR039: 1, AR104: 0, AR052: 0, AR053: 0 S0414: 7, L0794: 4, H0651: 4, L0439: 3, L0749: 3, H0647: 2, L0766: 2, L0803: 2, L0659: 2, L0756: 2, L0599: 2, H0657: 1, H0645: 1, S0222: 1, H0574: 1, H0632: 1, H0486: 1, H0013: 1, H0014: 1, H0355: 1, S6028: 1, S0003: 1, H0673: 1, L0564: 1, S0438: 1, L0764: 1, L0804: 1, L0748: 1, L0754: 1, L0750: 1, L0779: 1, L0581: 1, L0608: 1, S0196: 1 and H0506: 1.		
				2360	Cys-1 to Gly-6.	L0766: 5, L0749: 5, L0803: 3, L0809: 3, L0758: 3, S0007: 2, H0124: 2, H0135: 2, L0771: 2, L0744: 2, L0740: 2, L0747: 2, L0779: 2, L0600: 2, H0556: 1, S0116: 1, S0444: 1, H0393: 1, H0351: 1, L0118: 1,		
			185	2 - 949			
HJBCC19	982465						

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HODAA93	982618	186	3 - 899	2361	Val-50 to His-55, Ser-75 to Cys-81, Lys-98 to Lys-104.	H0328: 1, H0615: 1, L0804: 1 and H0677: 1.		

	HSPSI74	982764	187	91 - 705	2362	Pro-34 to Ser-42, Cys-82 to Lys-89, Ser-147 to Lys-156, Ser-198 to Cys-205.		3q21-q25	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400

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					Gly-12 to Pro-23, Gly-41 to Thr-47.		
				2363			
			2115 - 2342				
		188					
	983008						
HCEHZ42							

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HDPVU15	983592	189	66 - 737	2364	Pro-16 to Gly-23, Ser-30 to Lys-38, Glu-44 to Cys-50, Pro-81 to Lys-86, Gly-135 to Gly-140, Arg-167 to Thr-176, Leu-192 to Phe-201, Pro-203 to Ser-209, His-216 to Asn-224.	H0486: 2, H0521: 2, L0748: 2, H0171: 1, H0556: 1, H0638: 1, H0351: 1, H0052: 1, H0083: 1, L0646: 1, L0794: 1, L0766: 1, L0389: 1, L0803: 1, L0375: 1, L0655: 1, L0527: 1, L0438: 1, H0519: 1, H0435: 1, H0666: 1, S0328: 1, S0378: 1, L0750: 1, L0777: 1, L0755: 1, L0592: 1, H0668: 1 and H0543: 1.	3q27		
HT5GC28	984008	190	1 - 273	2365	Ala-1 to Asn-16, Thr-65 to Thr-74.	H0584: 1 and S0126: 1.	11	

HDABW50	984168	191	56 - 523	2366	Arg-21 to Gly-28, Pro-30 to Ser-36, Arg-54 to Arg-61, Gln-125 to Gly-130, Ala-140 to Gln-145.	S0412: 19, H0657: 7, L0748: 7, L0777: 7, H0039: 6, H0659: 6, L0749: 6, H0040: 5, L0655: 5, L0747: 5, L0438: 4, L0742: 4, L0779: 4, L0758: 4, L0599: 4, H0341: 3, S0376: 3, H0497: 3, L0471: 3, H0015: 3, H0687: 3, H0090: 3, L0769: 3, L0776: 3, L0659: 3, L0517: 3, L0664: 3, H0672: 3, L0740: 3, L0752: 3, L0588: 3, L0605: 3, L0608: 3, L0362: 3, H0686: 2, H0662: 2, S0354: 2, S0360: 2, H0559: 2, H0098: 2, H0318: 2, H0545: 2, H0644: 2, L0455: 2, H0135: 2, H0038: 2, S0002: 2, L0646: 2, L0764: 2, L0803: 2, L0375: 2, L0666: 2, S0330: 2, H0539: 2, S0152: 2, H0436: 2, L0755: 2, L0731: 2, L0759: 2, S0434: 2,	6q25.3-q26	100678, 147280, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544

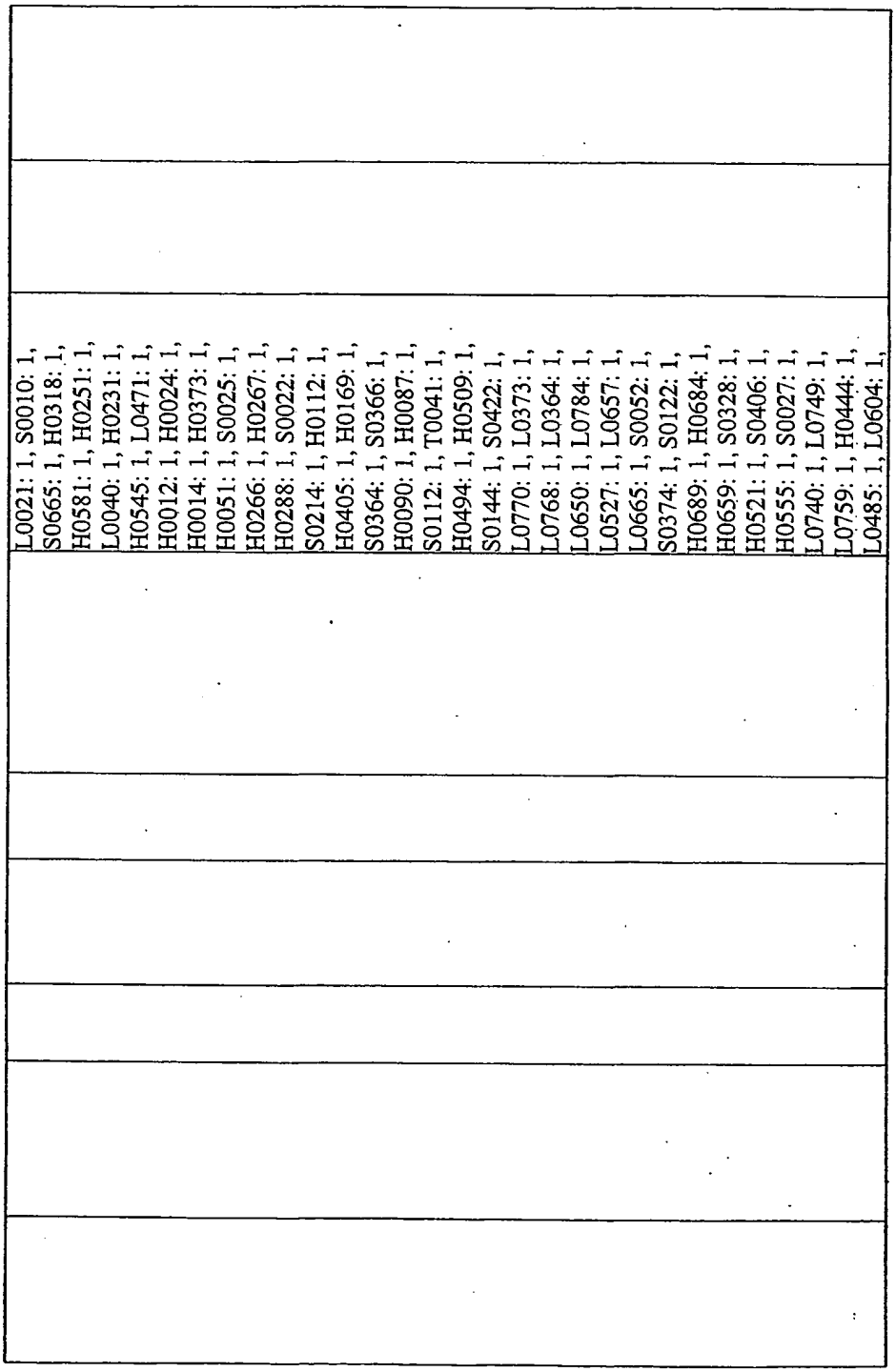
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		H0100: 1, T0041: 1, T0042: 1, S0440: 1, H0509: 1, H0132: 1, S0150: 1, H0641: 1, S0422: 1, S0426: 1, H0529: 1, L0369: 1, L0520: 1, L0371: 1, L0796: 1, L0761: 1, L0772: 1, L0800: 1, L0374: 1, L0521: 1, L0364: 1, L0794: 1, L0766: 1, L0522: 1, L0805: 1, L0654: 1, L0606: 1, L0527: 1, L0558: 1, L0647: 1, L0789: 1, S0374: 1, H0519: 1, H0689: 1, H0658: 1, H0660: 1, S0328: 1, S0378: 1, H0521: 1, S0168: 1, H0555: 1, S3012: 1, S0037: 1, S0028: 1, L0439: 1, L0750: 1, L0756: 1, L0757: 1, S0260: 1, L0591: 1, L0593: 1, L0361: 1, S0026: 1, H0653: 1, S0192: 1, S0242: 1, H0542: 1, H0423: 1 and H0422: 1.				

HAQBH11	985043	192	207 - 626	2367	Glu-12 to Arg-25, Leu-36 to Gly-41.	H0360: 12, L0747: 10, L0748: 7, S0007: 6, L0731: 6, L0769: 5, L0766: 5, L0749: 5, L0740: 4, L0751: 4, L0750: 4, L0779: 4, L0471: 3, L0776: 3, L0526: 3, L0666: 3, L0439: 3, H0686: 2, S0408: 2, H0625: 2, L0639: 2, L0646: 2, L0768: 2, L0774: 2, L0655: 2, L0542: 2, L0790: 2, H0659: 2, H0134: 2, L0777: 2, L0755: 2, H0170: 1, T0002: 1, H0685: 1, H0295: 1, S0114: 1, H0663: 1, H0125: 1, S0444: 1, S0360: 1, H0580: 1, S0046: 1, H0351: 1, H0331: 1, L0623: 1, H0244: 1, H0156: 1, T0048: 1, H0052: 1, H0083: 1, H0266: 1, H0328: 1, H0031: 1, H0038: 1, H0412: 1, T0041: 1, S0438: 1, S0440: 1, L0520: 1, L0371: 1,	17p13.3	113721, 247200, 600059, 601545

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HMVAW42	985280	193	1047 - 727	2368		S0212: 1, H0592: 1 and H0052: 1.		
HAGDF03	985323	194	1 - 690	2369	Pro-27 to His-33.	L0779: 3, S0010: 2, H0581: 1, H0081: 1, L0770: 1, L0794: 1, H0689: 1, H0666: 1, S0330: 1, L0593: 1, S0424: 1 and H0506: 1.	4	
HOPKI29	985401	195	2 - 547	2370	Glu-4 to Gly-12, Gly-15 to Lys-21,	L0750: 11, S0026: 7, L0518: 6, L0752: 6,	12	

	Lys-53 to Leu-59, Ala-113 to Asp-118, Glu-137 to Met-143, Thr-164 to Lys-170, Pro-175 to Glu-180.					L0588: 6, L0747: 5, L0758: 5, S0116: 4, L0769: 4, S0360: 3, H0599: 3, H0620: 3, H0059: 3, L0766: 3, L0775: 3, L0743: 3, L0731: 3, L0757: 3, H0543: 3, S0040: 2, T0049: 2, S0212: 2, H0305: 2, S0356: 2, S0358: 2, S0045: 2, S0278: 2, L0623: 2, S0003: 2, H0031: 2, H0412: 2, H0646: 2, S0142: 2, L0763: 2, L0764: 2, L0774: 2, L0776: 2, L0659: 2, L0789: 2, L0666: 2, S0126: 2, H0648: 2, H0694: 2, S3014: 2, L0754: 2, L0755: 2, H0445: 2, L0599: 2, S6024: 1, H0650: 1, L0808: 1, H0341: 1, H0484: 1, H0402: 1, H0638: 1, S0348: 1, S0376: 1, S0444: 1, H0440: 1, H0640: 1, H0409: 1, H0586: 1, L0586: 1, S0280: 1,


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H0545: 1, L0471: 1,
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H0288: 1, S0022: 1,
S0214: 1, H0112: 1,
H0405: 1, H0169: 1,
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H0090: 1, H0087: 1,
S0112: 1, T0041: 1,
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L0768: 1, L0364: 1,
L0650: 1, L0784: 1,
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L0665: 1, S0052: 1,
S0374: 1, S0122: 1,
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H0659: 1, S0328: 1,
H0521: 1, S0406: 1,
H0555: 1, S0027: 1,
L0740: 1, L0749: 1,
L0759: 1, H0444: 1,
L0485: 1, L0604: 1,

HAJCA11	985580	196	391 - 1293	2371	Asp-23 to Ser-29, Lys-36 to Ala-48, Phe-66 to Arg-74, Gly-92 to Thr-98, Arg-137 to Asp-142, Met-155 to Ser-161.	L0366: 1, H0668: 1, H0653: 1, S0192: 1 and H0506: 1.	2p16		126600, 126600, 136435, 160980, 600678
						L0471: 2, H0561: 2, H0543: 2, H0013: 1, H0090: 1, H0634: 1, H0551: 1 and H0560: 1.			
HWAHA11	986078	197	1144 - 602	2372		AR061: 3, AR089: 3, AR096: 3, AR039: 2, AR060: 2, AR033: 1, AR104: 1, AR055: 1, AR052: 0, AR053: 0 L0751: 6, H0659: 4, H0657: 2, L0764: 2, L0655: 2, H0682: 2, H0521: 2, L0743: 2, L0749: 2, H0265: 1, T0049: 1, S0134: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, S0045: 1, H0549: 1, H0486: 1, T0060: 1, H0575: 1, H0581: 1, H0061: 1, H0266: 1, L0055: 1, H0068: 1, H0090: 1, H0551: 1, H0413: 1, S0142: 1, S0002: 1,			

						L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0664: 1, H0658: 1, H0670: 1, H0648: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.		
HSAMI43	986158	198	2 - 1477	2373	Glu-27 to Thr-33.	L0717: 2, H0660: 2, S0420: 1, S0376: 1, H0393: 1, H0013: 1, H0266: 1, H0038: 1, H0529: 1, L0800: 1, L0794: 1, L0766: 1, L0657: 1, L0666: 1, H0658: 1, H0626: 1, L0759: 1, H0665: 1, H0543: 1 and H0677: 1.		
HNFJH73	986165	199	1 - 609	2374	Ser-2 to Gly-7, Tyr-18 to Phe-26, Lys-39 to Gly-57, Gly-100 to Pro-106, Asn-109 to Ser-116, Tyr-119 to Ile-125, Pro-151 to Phe-157.	L0439: 10, L0740: 8, L0794: 7, L0805: 7, L0438: 6, H0539: 6, L0748: 6, L0754: 5, L0769: 4, L0776: 4, H0521: 4, H0615: 3, H0040: 3, H0100: 3, L0595: 3, H0624: 2, H0170: 2, H0656: 2, S0045: 2, H0013: 2, S0010: 2, H0051: 2, L0766: 2, L0774: 2, L0375: 2, L0806: 2,	3q28	165500, 600700

							H0670: 2, H0648: 2, L0753: 2, L0731: 2, L0759: 2, L0589: 2, H0686: 1, S0040: 1, S0342: 1, L0005: 1, H0431: 1, H0333: 1, H0485: 1, H0486: 1, H0327: 1, H0546: 1, H0046: 1, H0009: 1, H0123: 1, H0012: 1, H0271: 1, H0039: 1, H0030: 1, H0644: 1, H0628: 1, H0032: 1, H0591: 1, H0058: 1, T0067: 1, S0450: 1, S0438: 1, L0770: 1, L0764: 1, L0381: 1, L0803: 1, L0661: 1, L0789: 1, H0144: 1, S0328: 1, H0540: 1, L0747: 1, L0749: 1, L0750: 1, L0779: 1, L0777: 1, L0757: 1, S0031: 1, H0445: 1, H0595: 1, L0599: 1, L0603: 1 and H0008: 1.	
HNTCH03	986328	200	57 - 248	2375	Val-15 to Pro-21, Leu-56 to Gln-64.	L0663: 2, H0556: 1, H0686: 1, L0717: 1, L0764: 1, L0794: 1, L0656: 1, L0665: 1,		

HSUAA20	986744	201	2 - 1321	2376	Val-36 to Gly-52, Asp-140 to Ser-148, Ser-158 to Thr-163, Arg-168 to Ala-175, Glu-196 to Arg-205, Ser-271 to Lys-276, Val-281 to Tyr-294, Arg-305 to Met-310, Cys-314 to Ile-324, Gln-326 to Tyr-345, Phe-356 to Trp-361, Leu-383 to Ala-390, Glu-412 to Ile-420.	S0374: 1, H0519: 1, H0659: 1, H0648: 1, L0748: 1, L0759: 1, S0436: 1 and L0608: 1.	L0750: 12, L0747: 7, H0543: 7, L0748: 6, L0764: 3, H0539: 3, H0657: 2, L0785: 2, S0358: 2, H0266: 2, H0031: 2, L0766: 2, L0775: 2, L0783: 2, L0666: 2, L0663: 2, L0438: 2, H0435: 2, H0658: 2, H0670: 2, L0588: 2, H0542: 2, H0624: 1, S0342: 1, L0443: 1, L0808: 1, H0305: 1, L0481: 1, H0431: 1, H0438: 1, S0280: 1, L0021: 1, H0036: 1, H0004: 1, H0318: 1, N0006: 1, H0050: 1, L0471: 1, H0687: 1, S0003: 1, H0428: 1, L0455: 1, H0494: 1, H0625: 1, L0598: 1, L0763: 1, L0769: 1, L0761: 1, L0772: 1, L0641: 1, L0773: 1, L0662: 1,	17p13.3	113721, 247200, 600059, 601545

						L0378: 1, L0806: 1, L0776: 1, L0657: 1, L0659: 1, L0517: 1, L0809: 1, L0647: 1, L0532: 1, S0126: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, S0328: 1, H0518: 1, H0134: 1, L0740: 1, L0754: 1, L0749: 1, L0759: 1, L0591: 1, L0608: 1, L0362: 1, L0366: 1, H0136: 1 and S0398: 1.		
HSPAD08	986767	202	809 - 1054	2377	Pro-32 to Ser-37, Arg-52 to Gly-63, Lys-66 to Gly-73.	H0670: 4, S0408: 3, L0666: 3, L0665: 3, H0156: 1, H0615: 1, L0776: 1, L0527: 1, H0658: 1 and H0478: 1.	20q12-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 600281, 600281, 602025	
HFKBA32	987018	203	1 - 618	2378	Phe-1 to Cys-10.	L0439: 7, L0438: 4, L0770: 3, L0809: 3, S0360: 2, H0011: 2, L0794: 2, H0672: 2, L0749: 2, L0756: 2, L0759: 2, S0046: 1,	20p12	112261, 176640, 176640, 176640, 236700, 601920	

					H0437: 1, T0048: 1, S0050: 1, S0051: 1, H0687: 1, L0455: 1, H0100: 1, L0351: 1, L0769: 1, L0761: 1, L0768: 1, L0806: 1, L0659: 1, L0383: 1, L0666: 1, H0547: 1, H0539: 1, L0748: 1, L0747: 1, L0780: 1, L0731: 1, L0366: 1 and L0697: 1.		113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
					Val-23 to Gly-32.	L0751: 4, S0126: 3, H0658: 2, L0741: 2, H0171: 1, T0002: 1, S0001: 1, H0619: 1, H0574: 1, H0618: 1, H0199: 1, H0057: 1, H0020: 1, H0201: 1, L0055: 1, H0038: 1, L0769: 1, L0646: 1, L0643: 1, L0794: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0665: 1, H0703: 1, H0659: 1, S0028: 1, L0777: 1, L0780: 1, L0731: 1, L0758: 1, S0031: 1, L0599: 1, H0136: 1 and H0543: 1.	19q13.3	
				2379				
			50 - 745					
		204						
	987071							
HHFLU49								

HOENX16	987112	205	164 - 850	2380	Pro-3 to Val-18, Trp-21 to Gly-27.	L0805: 18, L0776: 16, L0751: 14, L0759: 10, L0770: 8, L0769: 6, L0758: 6, H0351: 4, L0803: 4, L0807: 4, L0754: 4, H0716: 3, S0250: 3, H0615: 3, H0644: 3, L0791: 3, L0793: 3, S0408: 2, H0013: 2, H0594: 2, H0591: 2, L0796: 2, L0521: 2, L0662: 2, L0794: 2, L0774: 2, L0518: 2, L0792: 2, L0666: 2, H0144: 2, H0670: 2, L0740: 2, L0779: 2, H0624: 1, S0342: 1, H0640: 1, H0369: 1, H0549: 1, H0486: 1, S0280: 1, L0021: 1, L0022: 1, S0010: 1, L0109: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0032: 1, T0067: 1, H0059: 1, L0640: 1, L0763: 1, L0773: 1, L0659: 1, L0809: 1, L0788: 1, L0532: 1, L0665: 1, H0547: 1,	6p22-p21	180297, 248611, 251000, 263200, 600211, 600701, 601690

							S0126: 1, S0328: 1, S0378: 1, S0037: 1, L0745: 1, L0750: 1, L0777: 1, L0780: 1, S0434: 1, L0361: 1, S0194: 1, S0398: 1, S0460: 1, H0008: 1 and H0352: 1.		
HTFOW71	987165	206	14 - 400	2381	Thr-1 to Ser-6.		L0766: 4, L0665: 4, L0754: 3, H0013: 2, H0052: 2, L0776: 2, H0144: 2, L0777: 2, L0622: 1, H0427: 1, S0344: 1, L0520: 1, L0774: 1, L0775: 1, L0527: 1, L0659: 1, L0666: 1, H0689: 1, H0682: 1, H0672: 1, H0522: 1, L0741: 1, L0750: 1, L0756: 1, L0758: 1 and S0424: 1.		
HTTAG03	987262	207	1270 - 68	2382	Pro-4 to Pro-27, Ala-35 to Arg-43, Asp-56 to Val-61.		L0439: 70, L0666: 20, L0748: 20, H0013: 15, L0663: 15, L0740: 15, L0754: 14, L0438: 12, L0769: 11, L0752: 11, H0046: 9, L0662: 9, L0776: 9, L0665: 9, H0547: 9, L0766: 8, H0670: 8, H0622: 7,		

		L0770: 7, L0758: 7, S0007: 6, H0040: 6, L0761: 6, L0659: 6, H0696: 6, L0753: 6, L0592: 6, S0010: 5, H0428: 5, H0144: 5, L0742: 5, L0747: 5, H0305: 4, S0222: 4, H0486: 4, S0346: 4, L0351: 4, L0768: 4, L0650: 4, H0658: 4, L0756: 4, L0759: 4, L0594: 4, L0362: 4, H0556: 3, S0356: 3, H0587: 3, H0574: 3, H0575: 3, T0082: 3, H0318: 3, S0049: 3, H0251: 3, H0309: 3, H0327: 3, H0050: 3, H0014: 3, H0688: 3, S0036: 3, H0538: 3, L0638: 3, L0560: 3, L0651: 3, L0655: 3, L0517: 3, L0532: 3, L0664: 3, H0682: 3, H0659: 3, H0539: 3, H0521: 3, S0436: 3, L0591: 3, H0171: 2, H0265: 2, S0116: 2, S0420: 2, H0580: 2,			

		H0393: 2, H0392: 2, H0497: 2, L0623: 2, H0427: 2, H0590: 2, H0581: 2, H0052: 2, H0620: 2, H0687: 2, S0003: 2, H0615: 2, H0039: 2, L0455: 2, H0090: 2, H0591: 2, H0413: 2, T0042: 2, L0796: 2, L0648: 2, L0649: 2, L0775: 2, L0375: 2, L0809: 2, H0689: 2, H0672: 2, S0330: 2, S0378: 2, S0404: 2, L0744: 2, L0749: 2, L0777: 2, L0731: 2, L0596: 2, L0605: 2, L0599: 2, S0026: 2, H0423: 2, H0170: 1, L0615: 1, T0002: 1, H0686: 1, H0717: 1, L0418: 1, L0423: 1, S0212: 1, S0282: 1, H0664: 1, H0241: 1, H0638: 1, S0358: 1, S0444: 1, S0360: 1, S0410: 1, T0008: 1, H0722: 1, H0208: 1, S0476: 1, H0619: 1, S0300: 1,				

		H0351: 1, S0278: 1, S6022: 1, H0261: 1, H0441: 1, H0453: 1, H0370: 1, H0455: 1, H0409: 1, H0586: 1, H0333: 1, H0642: 1, H0632: 1, H0485: 1, T0039: 1, T0109: 1, S0280: 1, H0156: 1, L0021: 1, H0037: 1, H0618: 1, H0505: 1, S0474: 1, H0263: 1, H0544: 1, H0545: 1, H0439: 1, H0150: 1, H0123: 1, H0011: 1, H0373: 1, L0163: 1, H0051: 1, S0388: 1, H0399: 1, H0354: 1, S6028: 1, H0266: 1, S0340: 1, S0250: 1, S0214: 1, L0194: 1, H0553: 1, L0055: 1, H0169: 1, H0124: 1, H0708: 1, H0038: 1, H0634: 1, H0551: 1, H0380: 1, H0264: 1, H0623: 1, S0386: 1, H0100: 1, L0354: 1, H0494: 1, S0372: 1, S0440: 1, S0150: 1,			

H0646: 1, S0002: 1, S0426: 1, L0598: 1, H0529: 1, L0762: 1, L0763: 1, L0371: 1, L5565: 1, L0667: 1, L0772: 1, L0641: 1, L0764: 1, L0773: 1, L0521: 1, L0626: 1, L0363: 1, L0767: 1, L0794: 1, L0381: 1, L0803: 1, L0774: 1, L0376: 1, L0805: 1, L0628: 1, L0807: 1, L0657: 1, L0658: 1, L0783: 1, L0792: 1, L0793: 1, H0725: 1, H0691: 1, H0520: 1, H0519: 1, H0690: 1, H0683: 1, H0435: 1, H0648: 1, H0651: 1, L0355: 1, S0328: 1, S0380: 1, H0710: 1, H0518: 1, S0406: 1, S0432: 1, S0028: 1, L0745: 1, L0750: 1, L0755: 1, S0031: 1, H0444: 1, H0445: 1, L0683: 1, S0434: 1, L0589: 1, L0590: 1, L0595: 1, L0366: 1,						

							S0011: 1, H0667: 1, S0192: 1, S0276: 1, H0542: 1, S0462: 1 and H0506: 1.		
HNTNN89	987577	208	2 - 562	2383	Glu-134 to Val-139, Trp-147 to Lys-161, Ala-163 to Pro-172.	S0250: 4, S0358: 3, N0006: 3, H0620: 3, H0014: 3, H0656: 2, H0024: 2, L0776: 2, L0750: 2, S0212: 1, H0450: 1, H0549: 1, H0550: 1, H0575: 1, H0036: 1, H0590: 1, H0050: 1, L0471: 1, H0373: 1, H0628: 1, H0038: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, L0790: 1, H0520: 1, H0435: 1, H0521: 1, S0027: 1, S0032: 1, L0759: 1, S0434: 1, L0485: 1, L0595: 1, H0542: 1, H0543: 1 and S0021: 1.		
HRADQ96	987636	209	165 - 398	2384	Pro-5 to Gly-13, Gly-26 to Gly-34, Leu-49 to Glu-62, Gly-67 to Val-78.	L0758: 4, L0803: 3, L0779: 3, L0794: 2, L0776: 2, L0789: 2, H0555: 2, L0748: 2, L0731: 2, H0622: 1, L0800: 1, L0809: 1,	6p21.3		106300, 108800, 120290, 120290, 120810, 120820,

					L0666: 1, H0670: 1, H0648: 1, L0745: 1, L0749: 1, L0759: 1 and L0596: 1.		142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
					Asn-85 to Glu-91.	L0731: 29, L0662: 11, L0747: 11, S0003: 9, L0666: 9, L0779: 9, L0758: 9, L0809: 8, S0360: 7, S0132: 7, H0046: 7, L0752: 7, S0040: 6, S0358: 6, L0803: 6, L0659: 6, L0748: 6, L0777: 6, H0599: 5, L0471: 5,	
			2385				
		93 - 776					
	210						
	987808						
HLDCJ16							

		H0616: 5, L0664: 5, L0744: 5, L0754: 5, L0749: 5, H0662: 4, S0476: 4, H0251: 4, S0022: 4, H0641: 4, L0806: 4, L0663: 4, S0126: 4, H0696: 4, L0439: 4, L0756: 4, L0362: 4, L0002: 3, H0411: 3, H0600: 3, H0013: 3, H0597: 3, H0231: 3, L0774: 3, L0805: 3, S0146: 3, L0759: 3, S0436: 3, L0603: 3, H0624: 2, H0170: 2, H0717: 2, S0212: 2, H0255: 2, S0418: 2, H0580: 2, H0729: 2, L0717: 2, H0592: 2, H0586: 2, H0575: 2, H0036: 2, H0590: 2, H0024: 2, H0373: 2, S0250: 2, H0039: 2, H0622: 2, L0483: 2, S0366: 2, H0038: 2, H0551: 2, L0564: 2, H0494: 2, S0352: 2, S0002: 2, L0770: 2, L0772: 2, L0800: 2, L0641: 2,				

		L0764: 2, L0768: 2, L0776: 2, H0144: 2, H0522: 2, S0044: 2, L0745: 2, L0750: 2, H0595: 2, L0597: 2, L0590: 2, L0592: 2, L0599: 2, L0785: 1, S0001: 1, H0663: 1, H0664: 1, H0638: 1, S0442: 1, S0376: 1, S0444: 1, H0637: 1, H0735: 1, H0734: 1, H0437: 1, H0369: 1, S0222: 1, H0441: 1, H0453: 1, H0331: 1, H0574: 1, H0485: 1, H0486: 1, T0039: 1, H0244: 1, H0427: 1, H0156: 1, L0105: 1, H0318: 1, H0581: 1, H0196: 1, H0234: 1, H0546: 1, H0050: 1, H0105: 1, H0014: 1, S0388: 1, S6028: 1, S0318: 1, H0252: 1, H0428: 1, H0553: 1, H0644: 1, H0673: 1, H0674: 1, S0364: 1, H0708: 1, H0591: 1, H0412: 1, H0413: 1,			

		H0100: 1, S0112: 1, T0041: 1, H0509: 1, H0646: 1, S0208: 1, L0763: 1, L0769: 1, L0372: 1, L0771: 1, L0773: 1, L0648: 1, L0521: 1, L0364: 1, L0794: 1, L0533: 1, L0379: 1, L0807: 1, L0512: 1, L0782: 1, L0384: 1, L0647: 1, L0788: 1, L0665: 1, S0374: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0683: 1, H0684: 1, H0658: 1, S0330: 1, S0380: 1, L0602: 1, S0152: 1, S0013: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, L0755: 1, L0757: 1, H0444: 1, L0596: 1, L0588: 1, L0591: 1, L0485: 1, S0011: 1, S0026: 1, S0192: 1, S0194: 1, S0456: 1, H0506: 1 and H0008: 1.			

HCOPH23	987900	211	268 - 603	2386		S0386: 1, H0670: 1 and H0444: 1.	2q36	120070, 120131, 120131, 138030, 147545, 259900, 262000
HEEAQ78	988159	212	466 - 149	2387	Ala-9 to Phe-15, Gly-44 to Pro-52, Pro-100 to Lys-106.	H0549: 2, H0023: 2, H0024: 2, L0750: 2, H0624: 1, L0659: 1, L0809: 1, L0740: 1, L0747: 1 and L0731: 1.	17q23	106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250
HOFNY16	988363	213	2 - 853	2388	Ala-1 to Thr-9, Arg-62 to Trp-77, Arg-176 to Pro-181, Val-191 to Leu-198, Lys-265 to Lys-272, Asn-276 to Val-283.	L0766: 5, L0755: 5, L0770: 4, L0659: 4, L0750: 4, L0752: 4, S0360: 3, L0764: 3, L0662: 3, L0774: 3, L0740: 3, L0731: 3, L0759: 3, S0132: 2, H0411: 2, H0188: 2, H0413: 2, L0598: 2, L0805: 2, L0782: 2, L0664: 2, H0144: 2, L0751: 2, L0749: 2, S0194: 2, H0624: 1, H0713: 1, S0218: 1, S0116: 1, H0663: 1,		

HSLCX45	988441	214	1 - 1458	2389	His-11 to Pro-18,	L0481: 1, S0376: 1, H0415: 1, H0586: 1, H0587: 1, T0109: 1, H0545: 1, H0046: 1, H0123: 1, T0023: 1, H0166: 1, H0038: 1, H0551: 1, H0264: 1, H0059: 1, T0042: 1, H0494: 1, H0560: 1, S0440: 1, H0529: 1, L0762: 1, L0763: 1, L0769: 1, L0796: 1, L0637: 1, L0772: 1, L0646: 1, L0800: 1, L0771: 1, L0768: 1, L0649: 1, L0803: 1, L0661: 1, L0657: 1, L0532: 1, S0374: 1, H0520: 1, S0126: 1, S0122: 1, H0659: 1, H0658: 1, H0660: 1, S0404: 1, S0037: 1, S3014: 1, S0206: 1, L0748: 1, L0747: 1, L0756: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0591: 1, L0608: 1, L0595: 1 and S0276: 1.	S0436: 10, L0803: 6,	19q12	

H0046: 5, L0754: 5, L0362: 5, L0794: 4, L0766: 4, L0749: 4, L0779: 4, S0444: 3, L0805: 3, L0527: 3, H0648: 3, L0439: 3, L0740: 3, L0747: 3, L0750: 3, L0777: 3, L0752: 3, H0671: 2, S0360: 2, S0408: 2, H0486: 2, L0105: 2, T0067: 2, H0059: 2, H0652: 2, L0770: 2, L0641: 2, L0662: 2, L0655: 2, L0783: 2, L0793: 2, L0665: 2, L0438: 2, H0520: 2, H0435: 2, H0659: 2, S0136: 2, L0731: 2, L0758: 2, L0759: 2, S0424: 2, H0717: 1, S0402: 1, H0657: 1, H0254: 1, S0348: 1, S0442: 1, H0722: 1, S0132: 1, S0476: 1, H0640: 1, S0300: 1, L0717: 1, S0278: 1, S0222: 1, H0587: 1, H0156: 1, H0575: 1, T0082: 1, H0318: 1,	Arg-40 to Asn-53.					

HLMJB09	988499	215	249 - 506	2390	Gln-10 to Lys-15, Pro-28 to Gln-33.	S0049: 1, H0052: 1, H0544: 1, H0545: 1, H0201: 1, T0010: 1, H0083: 1, S0003: 1, H0328: 1, H0428: 1, H0039: 1, H0622: 1, L0483: 1, S0364: 1, H0038: 1, H0551: 1, H0264: 1, T0069: 1, L0564: 1, T0041: 1, H0641: 1, H0529: 1, L0642: 1, L0764: 1, L0771: 1, L0364: 1, L0649: 1, L0388: 1, L0776: 1, L0809: 1, L0530: 1, L0663: 1, L0664: 1, H0547: 1, H0670: 1, H0672: 1, S0350: 1, S0406: 1, H0478: 1, S0027: 1, S0028: 1, L0748: 1, L0746: 1, L0756: 1, L0599: 1, H0542: 1, H0423: 1, H0422: 1 and L0697: 1.	H0255: 1, H0002: 1, H0266: 1, L0803: 1, H0660: 1, L0751: 1 and L0777: 1.		
HOVEF60	988526	216	113 - 724	2391	Tyr-18 to Lys-23,	H0428: 8, L0603: 2			

HOGDR72	988536	217	2 - 415	2392	Pro-32 to Arg-44, Pro-51 to Gly-56.	Lys-56 to Leu-70, Gln-85 to Ala-91, Met-123 to Asn-133.	H0617: 10, S0410: 8, L0769: 7, H0038: 6, L0439: 6, L0750: 6, L0752: 6, L0758: 6, S0360: 5, L0775: 5, S0406: 5, H0150: 4, L0157: 4, H0620: 4, H0087: 4, S0440: 4, S0344: 4, L0763: 4, S0328: 4, L0747: 4, H0224: 3, H0484: 3, H0402: 3, S0049: 3, H0708: 3, L0773: 3, L0805: 3, L0809: 3, L0519: 3, H0670: 3, L0748: 3, L0731: 3, L0757: 3, L0581: 3, H0295: 2, H0341: 2, S0444: 2, S0222: 2, L0622: 2, H0253: 2, H0309: 2, T0115: 2, H0544: 2, H0545: 2, H0081: 2, H0012: 2, H0673: 2, S0036: 2, H0616: 2, L0770: 2, L0518: 2, H0725: 2, S0374: 2, H0696: 2, L0588: 2, H0543: 2, and S0114: 1.	13	

		L0615: 1, H0160: 1, H0225: 1, H0713: 1, S6024: 1, S0430: 1, H0656: 1, S0116: 1, S0212: 1, H0483: 1, H0306: 1, H0638: 1, H0125: 1, S0420: 1, S0358: 1, S0408: 1, H0637: 1, S0476: 1, H0640: 1, H0411: 1, S0278: 1, H0441: 1, H0461: 1, H0298: 1, H0333: 1, L0623: 1, H0486: 1, H0427: 1, H0156: 1, H0599: 1, T0082: 1, T0048: 1, H0318: 1, H0581: 1, H0196: 1, H0597: 1, L0738: 1, H0530: 1, H0242: 1, H0024: 1, H0373: 1, L0163: 1, H0275: 1, H0188: 1, H0284: 1, S0003: 1, H0428: 1, H0213: 1, H0405: 1, H0181: 1, H0182: 1, H0606: 1, L0055: 1, H0163: 1, H0063: 1, T0067: 1, H0100: 1, H0560: 1, H0561: 1, H0647: 1,				

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HOCMF20	988556	218	1 - 366	2393	Gly-1 to Ser-20, Phe-29 to Asn-37, Asn-55 to Tyr-64, Ala-69 to Asp-78, Tyr-82 to Ala-91, Lys-100 to Glu-122.	S0328: 4, L0731: 3, S0356: 2, H0013: 2, L0794: 2, L0649: 2, H0435: 2, L0748: 2, L0749: 2, L0750: 2, L0758: 2, L0592: 2, H0685: 1, S0420: 1, S0360: 1, H0575: 1,	

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HAMHH26	988737	219	309 - 773	2394	Ala-12 to Asn-18.	H0618: 1, H0081: 1, T0010: 1, H0560: 1, L0763: 1, L0803: 1 and L0790: 1.		
HHFOX44	988904	220	3 - 659	2395		S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318

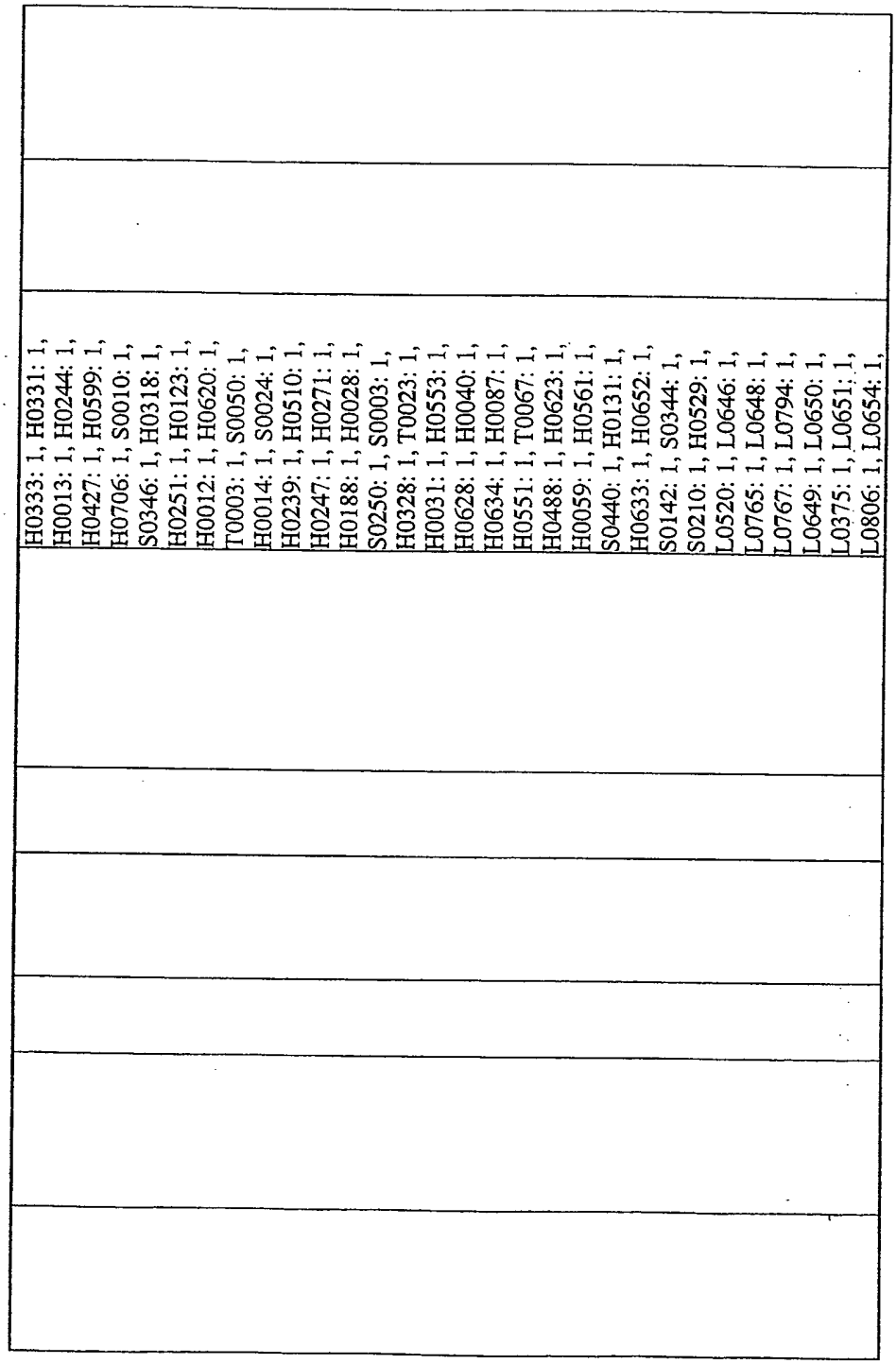
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HPWDE54	989029	221	1 - 2127	2396	Met-1 to Ile-6, Cys-13 to Ser-20, Asp-40 to Ser-46, Asp-48 to Ser-62, Ser-70 to Tyr-80, Glu-83 to Ser-89, Leu-108 to Ser-119,	AR055: 8, AR096: 4, AR053: 4, AR104: 3, AR089: 3, AR061: 3, AR039: 3, AR060: 3, AR033: 3, AR052: 1 L0777: 4, H0052: 3, L0438: 2, L0748: 2,	

				Cys-138 to Trp-154, Glu-198 to Val-227, Lys-251 to Asp-264, Asp-407 to Glu-415, Ile-456 to Val-462, Ser-470 to His-476, Phe-478 to Ser-492, Arg-500 to Asp-507, Asn-595 to Ala-603, Leu-638 to Leu-648, Lys-667 to Asn-673, Trp-684 to Ile-691, Ser-698 to Glu-709.	S0212: 1, S0376: 1, H0438: 1, H0318: 1, L0471: 1, H0375: 1, H0038: 1, H0551: 1, L0763: 1, L0764: 1, L0767: 1, L0794: 1, L0775: 1, L0805: 1, L0653: 1, H0648: 1, S0044: 1, L0742: 1, L0439: 1, L0747: 1, L0750: 1, S0031: 1, H0445: 1, L0590: 1 and H0543: 1.	
HNOAX46	989183	222	1 - 789	2397		H0556: 17, H0305: 15, S0414: 14, L0665: 14, H0402: 12, S0360: 11, L0663: 11, L0777: 11, L0766: 9, L0664: 9, L0752: 9, L0362: 9, L0662: 8, L0754: 8, S0408: 7, L0776: 7, L0666: 7, H0648: 7, S0406: 7, L0758: 7, H0422: 7, L0803: 6, L0655: 6, H0696: 6, H0657: 5, H0486: 5, L0770: 5, L0659: 5, H0144: 5, S0328: 5, L0742: 5, L0731: 5, H0423: 5, H0265: 4,		

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H0251: 1, H0123: 1,
H0012: 1, H0620: 1,
T0003: 1, S0050: 1,
H0014: 1, S0024: 1,
H0239: 1, H0510: 1,
H0247: 1, H0271: 1,
H0188: 1, H0028: 1,
S0250: 1, S0003: 1,
H0328: 1, T0023: 1,
H0031: 1, H0553: 1,
H0628: 1, H0040: 1,
H0634: 1, H0087: 1,
H0551: 1, T0067: 1,
H0488: 1, H0623: 1,
H0059: 1, H0561: 1,
S0440: 1, H0131: 1,
H0633: 1, H0652: 1,
S0142: 1, S0344: 1,
S0210: 1, H0529: 1,
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HCQCB28	989280	223	408 - 289	2398	His-7 to Lys-14.	L0768: 5, L0766: 3, L0769: 2, L0748: 2, L0750: 2, L0758: 2, H0663: 1, S0420: 1, S0360: 1, H0675: 1, H0486: 1, H0596: 1, H0179: 1, H0328: 1, L0363: 1, L0806: 1, L0809: 1, H0658: 1, L0747: 1, L0777: 1, L0731: 1 and H0352: 1.	

HOOJB32	989321	224	460 - 1173	2399	Ser-75 to Ala-92, Ala-106 to Met-123, Pro-125 to Gln-131, Asp-175 to Asn-182, Val-197 to Arg-224.	L0777: 7, L0766: 5, L0663: 3, H0660: 3, L0752: 3, L0758: 3, H0650: 2, H0124: 2, L0646: 2, L0740: 2, H0445: 2, L0588: 2, L0485: 2, S0424: 2, H0657: 1, H0341: 1, S0358: 1, S0360: 1, S0046: 1, H0385: 1, H0586: 1, L0477: 1, H0004: 1, H0052: 1, H0596: 1, H0373: 1, H0083: 1, H0375: 1, H0376: 1, H0059: 1, H0494: 1, S0150: 1, L0369: 1, L0763: 1, L0764: 1, L0662: 1, L0768: 1, L0803: 1, L0775: 1, L0776: 1, L0659: 1, L0666: 1, L0665: 1, H0144: 1, S0126: 1, H0659: 1, H0648: 1, S0330: 1, S0378: 1, S0152: 1, H0436: 1, S0390: 1, L0581: 1 and H0668: 1.				
HMWJJ35	989323	225	303 - 452	2400		H0171: 1, H0341: 1, L0157: 1, H0083: 1, H0068: 1, H0038: 1,	13q14.3	277900, 600631	

HHFIA95	989396	226	105 - 188	2401	Phe-2 to Cys-10.	H0616: 1 and L0519: 1.		
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HSPSH36	989607	227	71 - 259	2402	Pro-26 to Glu-49, Asp-58 to Pro-63.			

HAAAA25	989952	228	1136 - 534	2403	Lys-14 to Glu-23, Glu-30 to Ser-43, Ser-45 to His-54, Thr-66 to Tyr-71, Pro-75 to Asp-80, Ile-98 to Thr-120, Glu-125 to Lys-133, Leu-146 to Ala-152, Ala-170 to Ile-176, Asp-180 to Cys-200.	H0318: 1, H0646: 1 and L0366: 1.	8q24.12-q24.13	133700, 133700, 150230, 190080, 190350
HTEMJ16	990060	229	268 - 645	2404	His-8 to Ser-15, Ser-21 to Gly-32, Arg-51 to Ala-57, Phe-71 to Leu-78, Gly-87 to Glu-92.	L0777: 10, H0616: 4, L0758: 4, L0761: 3, L0766: 3, H0648: 3, L0749: 3, L0750: 3, L0755: 3, H0318: 2, H0545: 2, H0373: 2, H0038: 2, S0438: 2, S0422: 2, L0774: 2, L0375: 2, L0657: 2, L0518: 2, H0659: 2, L0731: 2, L0759: 2, H0685: 1, H0294: 1, H0656: 1, L0808: 1, S0420: 1, H0586: 1, L0622: 1, H0486: 1, T0082: 1, S0010: 1, S0049: 1, L0471: 1, H0615: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0769: 1,		

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HWLAB90	990146	230	2 - 682	2405	Glu-1 to Val-14, Arg-123 to Gly-128.	L0748: 6, L0774: 4, L0439: 4, L0749: 4, L0764: 3, L0771: 3, L0775: 3, L0665: 3, S0408: 2, H0644: 2, L0766: 2, L0649: 2, S0374: 2, L0747: 2, S0282: 1, H0662: 1, S0442: 1, S0354: 1, H0586: 1, H0156: 1, L0021: 1, H0239: 1, H0494: 1, S0440: 1, H0695: 1, L0762: 1, L0761: 1, L0648: 1, L0803: 1, L0804: 1, L0666: 1, L0663: 1, H0689: 1, H0658: 1, H0648: 1, S0380: 1,		

HOSED43	990184	231	2 - 790	2406	Gln-81 to Cys-86, Lys-170 to Asp-181.	AR089: 23, AR096: 19, AR039: 16, AR052: 16, AR060: 13, AR033: 11, AR055: 10, AR104: 9, AR053: 4, AR061: 3 H0024: 2, L0594: 2, H0542: 2, H0657: 1, S0214: 1, L0761: 1, L0766: 1, H0435: 1, H0658: 1, S0380: 1, L0753: 1 and L0759: 1.	S0044: 1, L0755: 1, L0758: 1 and H0423: 1.		
HNODF50	990254	232	761 - 165	2407	Gly-1 to Gln-11, Pro-111 to Pro-126, Lys-174 to Ser-179, Leu-181 to Leu-190.	H0617: 10, S0126: 7, S0404: 5, L0747: 5, L0779: 5, H0253: 4, H0545: 4, L0766: 4, S0328: 4, L0742: 4, L0752: 4, H0686: 3, S0420: 3, S0358: 3, S0046: 3, S0278: 3, H0592: 3, H0618: 3, H0100: 3, L0769: 3, H0519: 3, L0743: 3, L0758: 3, H0341: 2, H0484: 2, H0333: 2, H0327: 2, H0544: 2, H0046: 2, H0594: 2, T0042: 2, H0494: 2,			

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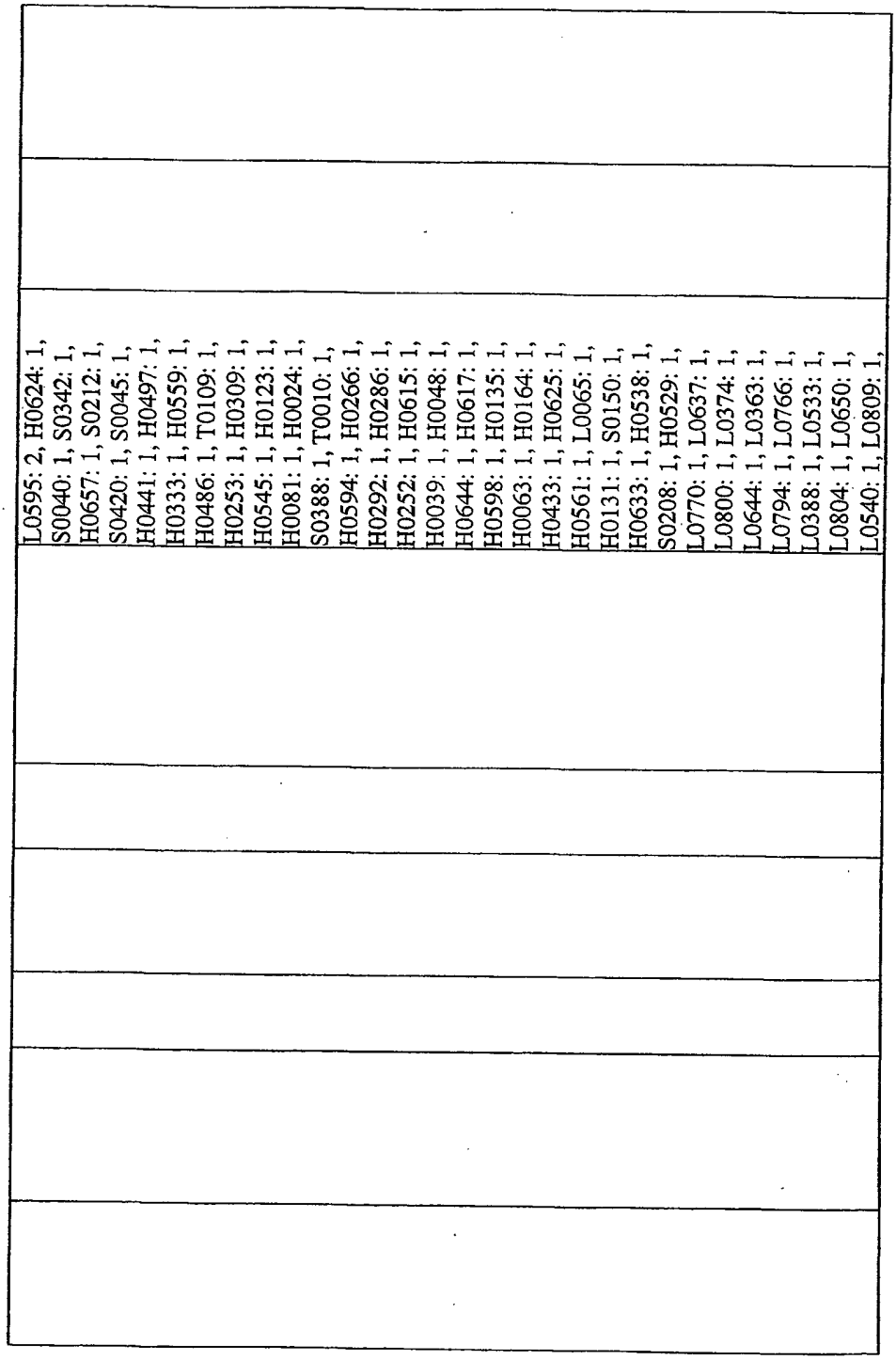
HLWBV17	990255	233	144 - 542	2408	Pro-46 to Pro-60, Lys-108 to Ser-113, Leu-115 to Leu-124.	S0196: 1, H0423: 1 and H0008: 1.	H0617: 10, S0126: 7, S0404: 5, L0747: 5, L0779: 5, H0253: 4, H0545: 4, L0766: 4, S0328: 4, L0742: 4, L0752: 4, H0686: 3, S0420: 3, S0358: 3, S0046: 3, S0278: 3, H0592: 3, H0618: 3, H0100: 3, L0769: 3, L0665: 3, H0519: 3, L0743: 3, L0758: 3, H0341: 2, H0484: 2, H0333: 2, H0327: 2, H0544: 2, H0046: 2, H0594: 2, T0042: 2, H0494: 2, S0426: 2, L0763: 2, L0761: 2, L0764: 2, L0519: 2, L0532: 2, H0435: 2, H0651: 2, S0330: 2, H0539: 2, S0206: 2, L0751: 2, L0755: 2, S0106: 2, H0543: 2, H0422: 2, H0624: 1, H0171: 1, H0657: 1, H0656: 1, S0282: 1, S0029: 1, H0663: 1,		

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HOCQH66	990435	234	37 - 2745	2409	Leu-1 to Gly-8.	S0126: 23, S0212: 16, S0250: 15, S0192: 14, H0622: 12, H0620: 9, H0144: 9, S0040: 7, H0024: 7, H0039: 7, S3014: 7, S0011: 7, H0013: 6, L0565: 6, S0028: 6, H0667: 6, S0194: 6, H0619: 5, H0031: 5, H0628: 5,		

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					Thr-77 to Val-84, Ser-244 to Val-255, Ala-296 to Val-301.	S0126: 8, S0418: 5, L0439: 5, H0551: 4, L0438: 4, L0747: 4, S0192: 4, H0556: 3, H0046: 3, L0769: 3, L0771: 3, L0662: 3, L0665: 3, L0731: 3, H0265: 2, S0360: 2, S0410: 2, S0046: 2, H0370: 2, H0618: 2, H0284: 2, H0181: 2, H0494: 2, H0560: 2, L0763: 2, L0764: 2, L0649: 2, L0378: 2, L0806: 2, L0547: 2, L0789: 2, L0666: 2, L0663: 2, H0520: 2, H0435: 2, S0152: 2, L0759: 2, L0596: 2,
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		1887 - 859					
		235					
	990546						
HOGDC67							


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S0040: 1, S0342: 1,
H0657: 1, S0212: 1,
S0420: 1, S0045: 1,
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H0333: 1, H0559: 1,
H0486: 1, T0109: 1,
H0253: 1, H0309: 1,
H0545: 1, H0123: 1,
H0081: 1, H0024: 1,
S0388: 1, T0010: 1,
H0594: 1, H0266: 1,
H0292: 1, H0286: 1,
H0252: 1, H0615: 1,
H0039: 1, H0048: 1,
H0644: 1, H0617: 1,
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H0433: 1, H0625: 1,
H0561: 1, L0065: 1,
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H0633: 1, H0538: 1,
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L0644: 1, L0363: 1,
L0794: 1, L0766: 1,
L0388: 1, L0533: 1,
L0804: 1, L0650: 1,
L0540: 1, L0809: 1,

HCDBO02	990609	236	4088 - 831	2411	H0547: 1, H0593: 1, H0659: 1, H0660: 1, S0044: 1, H0478: 1, S3014: 1, S0032: 1, L0750: 1, L0777: 1, L0758: 1, S0031: 1, H0653: 1 and H0667: 1.	L0794: 15, L0766: 12, L0439: 9, H0547: 7, H0520: 6, H0435: 5, S0440: 4, S0422: 4, L0664: 4, L0756: 4, S0376: 3, H0251: 3, H0529: 3, L0659: 3, L0755: 3, S0026: 3, H0657: 2, S0418: 2, S0444: 2, L0646: 2, L0768: 2, L0789: 2, H0519: 2, H0672: 2, H0555: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0731: 2, L0759: 2, L0589: 2, L0581: 2, L0608: 2, L0593: 2, H0542: 2, H0423: 2, H0422: 2, T0002: 1, S0040: 1, H0717: 1, H0650: 1, H0662: 1, S0420: 1, H0580: 1, H0729: 1,	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116

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HODGN92	990611	237	101 - 505	2412		H0615: 1 and H0660: 1.	

HPDRP30	990751	238	1166 - 2098	2413	Gln-1 to Pro-11, Val-15 to Arg-23, Arg-44 to Arg-59, Thr-70 to Gln-75, Ala-153 to Gln-168, Pro-187 to Pro-194, Pro-204 to Asp-214.	H0618: 12, H0253: 4, L0771: 4, S0358: 2, H0688: 2, H0658: 2, H0651: 2, L0439: 2, L0777: 2, H0445: 2, S6024: 1, H0484: 1, S0420: 1, S0376: 1, H0619: 1, H0609: 1, H0586: 1, H0642: 1, H0427: 1, H0196: 1, H0309: 1, H0546: 1, H0009: 1, H0123: 1, H0292: 1, H0553: 1, H0617: 1, H0551: 1, H0264: 1, S0440: 1, H0646: 1, L0372: 1, L0646: 1, L0803: 1, L0658: 1, L0659: 1, L0783: 1, L0788: 1, L0438: 1, H0690: 1, H0660: 1, H0648: 1, H0479: 1, L0744: 1, L0779: 1, L0758: 1, S0436: 1, H0542: 1 and H0423: 1.		
HBXFN09	990769	239	95 - 145	2414		H0438: 1 and L0749: 1.		
HDTBO75	990913	240	184 - 324	2415			1p22.1-p21.3	170995, 600309, 601414,

								602094
HELGN26	991014	241	3 - 902	2416	Arg-1 to Asn-18.	S0045: 1		
HODCU15	991048	242	828 - 1592	2417	Thr-57 to Glu-63, Ala-66 to Val-75, Glu-77 to Phe-86, Asp-199 to Gly-211.	AR055: 1, AR096: 1, AR089: 1, AR060: 1, AR104: 1, AR039: 1, AR061: 1, AR053: 1, AR033: 0, AR052: 0 S0418: 1, H0328: 1 and L0758: 1.		
HOGDI51	991268	243	1 - 543	2418	Phe-102 to Pro-111, His-136 to Lys-141.	H0038: 1, H0435: 1 and L0592: 1.	9q34	125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HLWAF02	991516	244	156 - 449	2419	Arg-1 to Ser-6, Phe-13 to Gln-24, Glu-31 to Arg-40, Ser-48 to Asn-56, Asp-69 to Val-75.	H0553: 1 and L0758: 1.	2q	
HRKPA16	991654	245	296 - 502	2420	Asn-47 to Phe-58.	L0748: 3, L0759: 3, H0366: 2, L0666: 2, L0665: 2, L0602: 2, S0136: 2, L0751: 2, L0779: 2, S0442: 1, L0717: 1, L0738: 1, T0010: 1, S0003: 1,		

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HPDQX94	991761	246	90 - 650	2421	Asp-15 to Ser-25, Ser-33 to Val-38, Lys-181 to Phe-187.	L0747: 11, L0770: 6, S0404: 6, L0752: 6, L0748: 5, L0776: 4, L0755: 4, L0731: 4, L0759: 4, S0442: 3, H0722: 3, S0438: 3, L0775: 3, L0375: 3, L0779: 3, T0049: 2, S0358: 2, H0730: 2, H0586: 2, T0048: 2, L0766: 2, H0690: 2, H0658: 2, L0750: 2, S0412: 2, H0713: 1, H0662: 1, S0354: 1, S0376: 1, S0360: 1,	4q28-q31		

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HEAAY09	992678	247	40 - 390	2422		H0369: 1 and H0529: 1.			
HPDRH78	992780	248	115 - 1371	2423		H0038: 6, L0663: 4, L0601: 4, S0442: 3, L0157: 3, L0770: 3, L0665: 3, S0436: 3, H0341: 2, H0125: 2, H0360: 2, H0318: 2, H0328: 2, H0615: 2,			

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L0809: 2, H0547: 2,
H0519: 2, S0126: 2,
H0659: 2, H0672: 2,
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L0745: 2, L0750: 2,
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H0292: 1, H0031: 1,
L0055: 1, H0166: 1,
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H0647: 1, H0646: 1,
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L0372: 1, L0641: 1,
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HLMHG68	992900	249	19 - 774	2424	Gln-2 to Ala-8, Asn-18 to Pro-28, Ala-129 to Asp-135, Ser-161 to Ser-171, Val-242 to Arg-250.	AR055: 28, AR039: 26, AR060: 21, AR033: 20, AR052: 17, AR089: 16, AR096: 16, AR104: 15, AR053: 15, AR061: 11 L0751: 6, L0783: 4, H0672: 4, L0805: 2, L0752: 2, L0758: 2, H0657: 1, H0255: 1, H0638: 1, S0418: 1, S0442: 1, H0351: 1, H0587: 1, H0256: 1,	

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HODFO57	992973	250	2 - 811	2425	Trp-31 to Thr-39, Asn-71 to Gln-76, Pro-134 to Thr-150, Lys-238 to Lys-243.		
HOCPZ44	993380	251	139 - 540	2426	Arg-1 to Glu-6, Arg-52 to Ala-58, Phe-72 to Leu-79, Gly-88 to Glu-93, Tyr-124 to Arg-134.	L0518: 4, S0356: 3, H0617: 3, L0777: 3, H0486: 2, H0544: 2, H0545: 2, H0373: 2, H0547: 2, H0660: 2, L0757: 2, L0604: 2, H0423: 2, H0656: 1, H0341: 1, H0484: 1, H0483: 1, H0661: 1, S0360: 1, S0045: 1,	

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						Gly-23 to Lys-28, Ser-37 to Gly-42, Lys-90 to Asp-101, Glu-175 to Phe-182, Glu-245 to Thr-251.	L0439: 8, L0774: 4, L0731: 4, H0622: 3, H0617: 3, S0002: 3, L0662: 3, L0438: 3, L0777: 3, S0134: 2, L0717: 2, H0370: 2, H0052: 2, H0596: 2, L0163: 2, H0163: 2, L0769: 2, L0768: 2, L0766: 2, L0666: 2, H0682: 2, L0740: 2, L0752: 2, L0757: 2,
					2427			
				69 - 821				
			252					
		993403						
	HPAMU38							

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HNGGK47	993602	253	265 - 372	2428	Trp-26 to Lys-36.	AR055: 8, AR033: 6, AR089: 6, AR060: 6,		

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HODGN51	993754	254	94 - 342	2429	Lys-12 to Ser-18, Lys-20 to Lys-25, Thr-38 to His-43, Lys-53 to Cys-64.	H0615: 3		
HODCT60	993806	255	212 - 559	2430	Ile-7 to Trp-17, Asn-54 to Lys-64, Thr-85 to Met-91.	S0001: 1, H0328: 1 and H0615: 1.		
HAQBV81	993918	256	3 - 623	2431	Gln-1 to Arg-7, Gly-18 to Thr-24, Glu-26 to Glu-32, His-76 to Thr-88, Gln-122 to His-129, Pro-184 to Glu-190.	L0809: 7, L0758: 7, L0754: 5, S0007: 4, L0662: 4, L0794: 4, L0665: 4, H0333: 3, L0769: 3, L0761: 3, L0768: 3, L0803: 3, L0439: 3, H0395: 2, S0222: 2, H0039: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0759: 2, L0591: 2, L0485: 2, H0624: 1, H0716: 1,		

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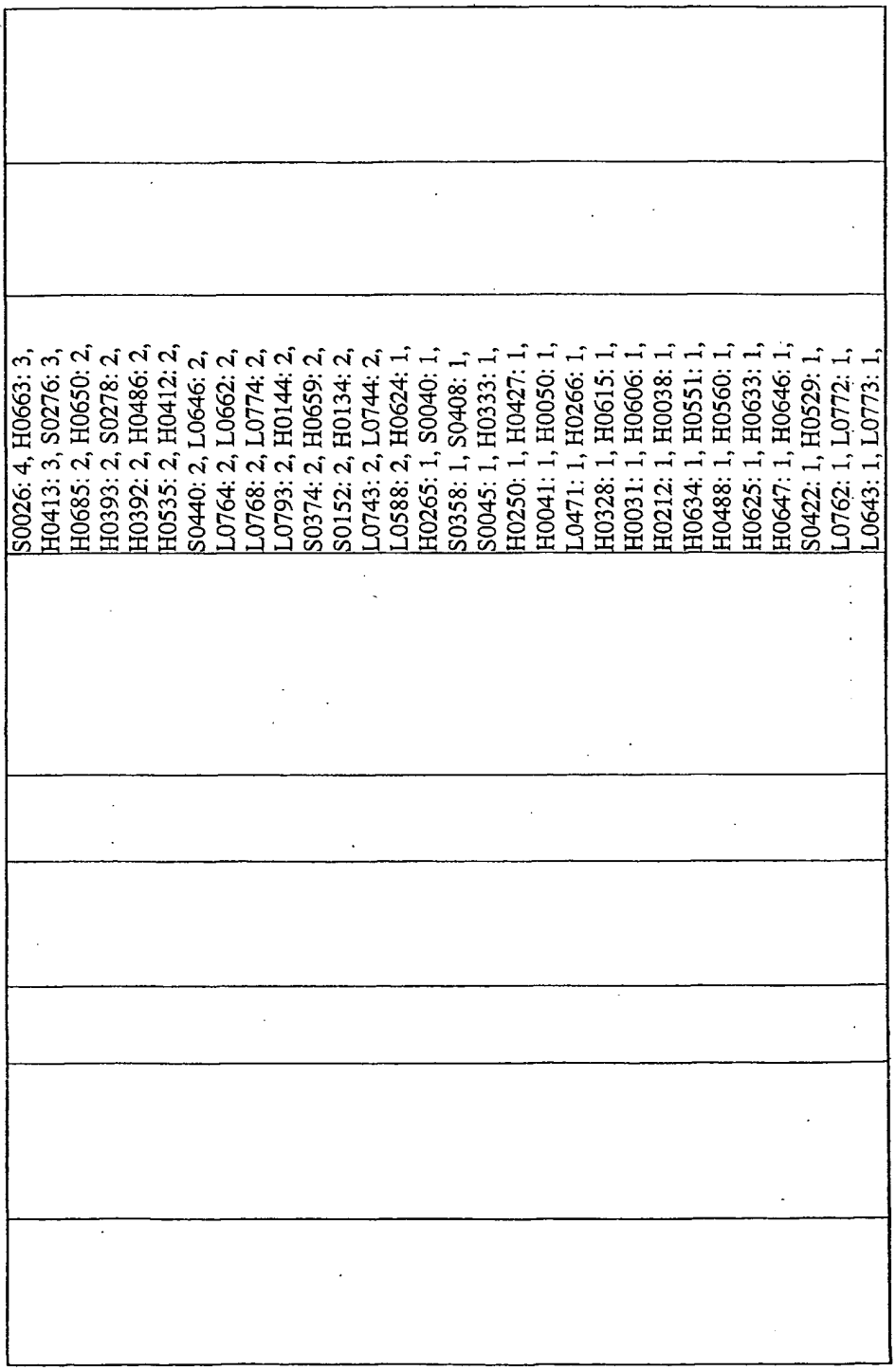
HOGBN62	994134	258	152 - 448	2433	Phe-12 to Tyr-22, Lys-34 to Ile-44.	L0794: 6, L0438: 4, L0758: 4, H0656: 3, L0766: 3, L0748: 3, L0747: 3, L0753: 3, L0731: 3, H0662: 2, H0013: 2, H0529: 2, L0655: 2, H0659: 2, L0439: 2, L0751: 2, L0779: 2, L0588: 2, H0422: 2, L0785: 1, S0420: 1, H0599: 1, S0010: 1, H0327: 1, H0024: 1, H0051: 1, H0083: 1, L0194: 1, L0055: 1, H0673: 1, H0038: 1, H0551: 1, H0561: 1, S0002: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0774: 1, L0775: 1, L0806: 1, L0659: 1, L0519: 1, L0666: 1, S0126: 1, H0435: 1, S0330: 1, S0380: 1, S3014: 1, S0260: 1, L0592: 1, L0485: 1 and L0362: 1.	H0587: 1, H0013: 1, H0318: 1, H0688: 1, L0793: 1 and L0748: 1.		

HSKGR42	994234	259	126 - 410	2434	Asp-8 to Glu-16, Thr-24 to Lys-35, Asn-37 to Glu-44, Leu-65 to Asp-95.	H0519: 1 and S3014: 1.		
HOEBQ85	994356	260	1065 - 706	2435		L0747: 4, L0758: 3, L0794: 2, L0649: 2, L0749: 2, L0759: 2, H0624: 1, H0333: 1, L0598: 1, L0773: 1, L0661: 1, L4501: 1, S0126: 1, H0682: 1, S0328: 1, H0521: 1, L0748: 1, L0750: 1, L0780: 1, L0755: 1 and S0436: 1.		
HOPJG01	994536	261	1390 - 257	2436	Ala-41 to Ser-46, Gly-57 to Gly-62, Glu-91 to Asn-111, Gln-113 to Pro-120, Val-128 to Ser-133, His-142 to Arg-149, Thr-177 to Leu-184, Arg-206 to Ile-214, Phe-261 to Trp-270, Asn-298 to Phe-305, Gln-315 to Gly-320.	H0052: 25, T0006: 15, L0596: 12, S0222: 11, H0009: 10, L0753: 10, H0441: 9, L0439: 9, L0752: 9, S0358: 8, H0253: 8, H0618: 7, H0231: 7, L0769: 7, H0144: 7, S0374: 7, H0550: 6, L0775: 6, L0745: 6, L0747: 6, S6024: 5, H0597: 5, H0178: 5, S0388: 5, S0051: 5, H0399: 5, L0750: 5, L0731: 5, S0007: 4, H0351: 4,	14q32	123270, 245200, 251600, 270100, 276900

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HKBAK06	994596	262	213 - 410	2437	Asn-1 to Arg-7, Ser-26 to Arg-31, Gln-36 to Trp-41, Pro-59 to Lys-66.	L0748: 25, L0750: 16, S0126: 6, L0751: 6, L0752: 6, L0758: 6, L0770: 5, L0769: 5, L0771: 5, L0740: 5, L0754: 5, L0749: 5, L0757: 5, H0341: 4, H0494: 4, L0806: 4, H0547: 4, H0666: 4, L0747: 4, L0731: 4,	8q21		


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H0265: 1, S0040: 1,
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					HFOYI37		

HOFNL18	994874	266	1 - 405	2441	Ser-26 to Pro-33.	AR039: 15, AR089: 8, AR033: 8, AR096: 8, AR053: 7, AR052: 7, AR060: 5, AR055: 5, AR104: 5, AR061: 3 H0415: 1 and H0414: 1.		
HOFNT57	994954	267	3 - 1175	2442	Asp-1 to Gly-15.			
HCBMT45	994993	268	1670 - 360	2443	Ser-157 to Asn-167, Asn-192 to Lys-198.	L0731: 8, L0757: 6, L0794: 5, L0809: 5, L0770: 3, L0803: 3, L0789: 3, L0750: 3, L0759: 3, H0038: 2, L0769: 2, L0805: 2, L0659: 2, L0665: 2, S0037: 2, L0742: 2, L0743: 2, L0748: 2, L0754: 2, L0747: 2, L0758: 2, S0436: 2, L0599: 2, L0608: 2, H0624: 1, H0661: 1, H0638: 1, S0358: 1, H0728: 1, H0733: 1, H0586: 1, H0587: 1, H0642: 1, S0010: 1, H0052: 1, H0544: 1, H0046: 1, L0471: 1, H0083: 1, H0179: 1, H0252: 1, H0688: 1, H0617: 1, H0606: 1,		

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HATDZ56	995200	269	120 - 1154	2444	Thr-23 to Pro-34, Glu-39 to Asp-83, Asn-89 to Lys-99, Asp-118 to Asp-128, Asn-135 to Glu-150, Glu-153 to Gly-168, Gly-181 to Thr-187, Arg-200 to Asp-205, Arg-273 to Ile-279, Thr-295 to Asp-300, Thr-316 to Cys-321.	L0438: 2, H0156: 1, H0004: 1, L0748: 1 and L0749: 1.		
HOCQI44	995229	270	2 - 520	2445	Ser-14 to Ala-21, Pro-80 to Tyr-85, Pro-99 to Gly-105,	L0771: 6, L0794: 4, L0748: 4, H0659: 3, L0749: 3, H0624: 2,	20	

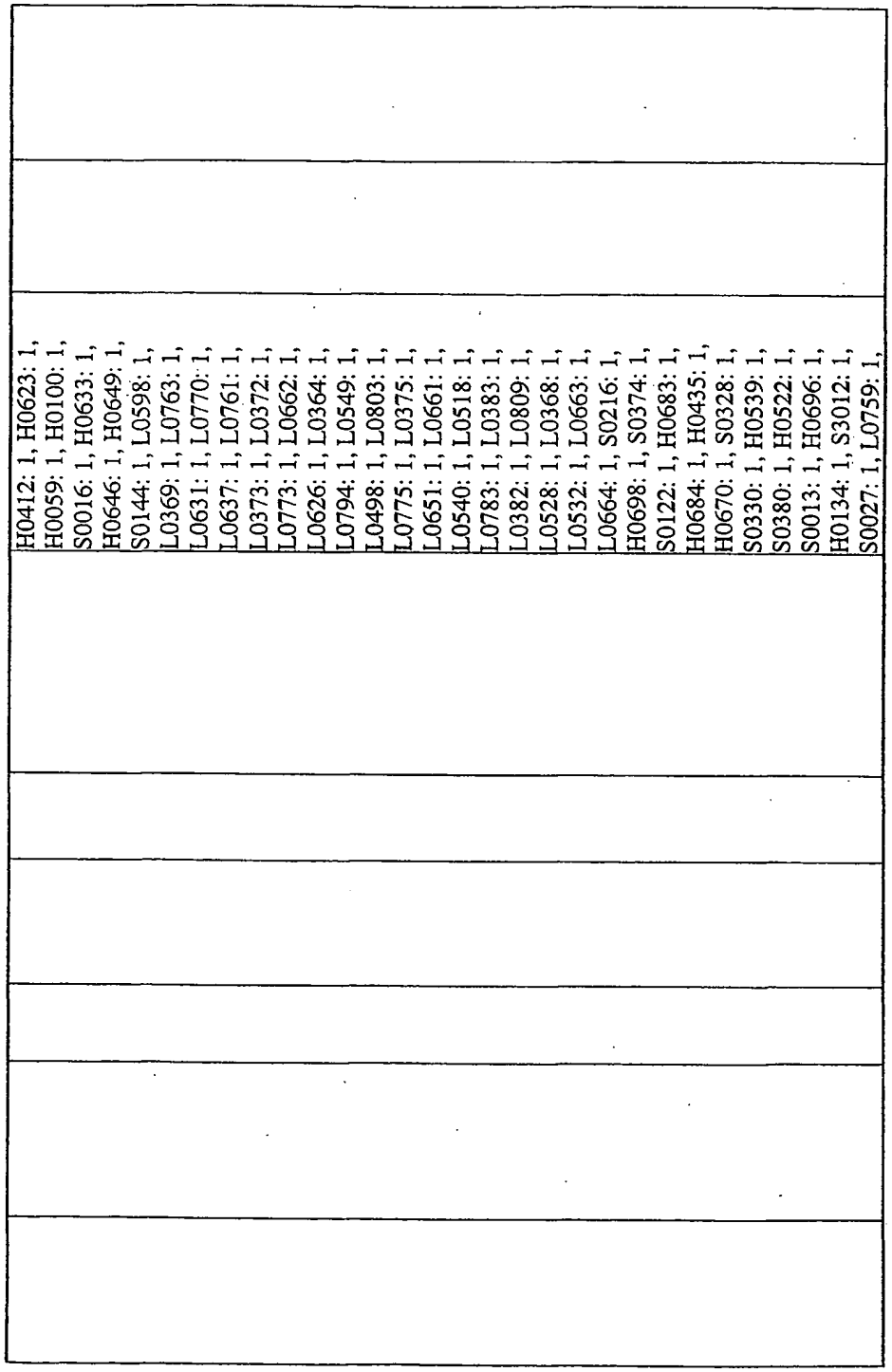
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						Pro-57 to Pro-64, Leu-137 to Ala-147, Ser-158 to Met-163,	L0755: 16, L0754: 14, L0591: 11, S0408: 9, H0441: 9, L0748: 9,		
HSPSB95	995590	272	2 - 838	2447					

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HCORG29	995806	273	1475 - 714	2448	Gly-1 to Ala-15, Ala-38 to Asp-46, Thr-56 to Leu-63, Glu-77 to Gly-83, Ile-102 to Gly-111, Pro-120 to Gly-128, Pro-130 to Asp-143, Lys-197 to Ser-211, Pro-217 to Tyr-247.	H0556: 4, S0027: 4, S0358: 3, H0318: 3, H0545: 3, L0776: 3, S0380: 3, L0439: 3, L0747: 3, H0265: 2, H0341: 2, H0661: 2, S0045: 2, H0351: 2, H0012: 2, H0039: 2, L0766: 2, S0374: 2, S0126: 2, S0330: 2, S0152: 2, S3014: 2, S0206: 2, L0748: 2, L0740: 2, L0749: 2, L0755: 2, H0423: 2, H0624: 1, L0615: 1, S0040: 1, H0294: 1, H0650: 1, H0657: 1, H0656: 1, H0484: 1, H0483: 1, H0255: 1, H0663: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0360: 1, H0637: 1, H0580: 1, S0046: 1, S0132: 1, H0586: 1, H0486: 1, H0013: 1, H0042: 1, H0052: 1, H0596: 1, H0444: 1, L0681: 1, S0011: 1, S0192: 1, S0276: 1 and H0542: 1.		

HCRNO02	995894	274	537 - 319	2449	Phe-3 to Ala-9.	H0327: 1, S0388: 1, H0275: 1, H0083: 1, S0022: 1, S0214: 1, H0252: 1, H0604: 1, H0031: 1, H0628: 1, H0673: 1, H0135: 1, H0090: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0623: 1, H0059: 1, H0494: 1, L0475: 1, H0561: 1, H0131: 1, S0344: 1, L0770: 1, L0769: 1, L0772: 1, L0804: 1, L0774: 1, L0655: 1, L0532: 1, H0144: 1, H0593: 1, H0659: 1, H0670: 1, H0704: 1, H0215: 1, S0406: 1, L0745: 1, L0596: 1, L0588: 1, S0026: 1, H0136: 1, S0276: 1, H0542: 1, H0543: 1 and S0460: 1.	S0356: 1 and L0780: 1.	8q21	124080, 202010, 202010, 214400, 602476, 602667

HCBOI79	996247	275	42 - 701	2450	Pro-9 to Gln-15, Glu-37 to Ala-49, Glu-70 to Leu-78, Thr-99 to Thr-122, Leu-144 to Gln-150, Gln-161 to Arg-167.	H0670: 3, H0624: 1, H0661: 1, S0354: 1, S0360: 1, S0278: 1, H0559: 1, H0150: 1, H0024: 1, H0510: 1, H0551: 1, H0413: 1, S0328: 1, H0555: 1 and L0759: 1.		
HVCAB73	996337	276	84 - 1259	2451	Arg-4 to Gly-24, Lys-47 to Phe-55, Lys-61 to Ala-67, Gly-108 to Thr-114, Pro-184 to Pro-191, Pro-292 to Arg-299, Pro-355 to Glu-392.	H0046: 22, H0547: 15, L0748: 13, S0152: 9, H0013: 7, H0009: 7, H0031: 7, H0529: 7, H0519: 7, L0471: 6, H0024: 6, H0266: 6, H0090: 6, H0520: 6, H0542: 6, H0543: 6, H0521: 5, L0439: 5, H0422: 5, S0420: 4, H0373: 4, H0040: 4, H0494: 4, H0561: 4, L0747: 4, L0592: 4, L0593: 4, L0595: 4, S0026: 4, H0423: 4, H0556: 3, H0657: 3, H0656: 3, L0005: 3, S0354: 3, S0408: 3, H0580: 3, S0045: 3, S0046: 3, S0132: 3, S0278: 3, H0586: 3, T0110: 3, H0620: 3,		

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HSDJH04	996619	277	114 - 419	2452	Arg-1 to Ser-20.	H0130: 1, H0633: 1, S0210: 1, L0598: 1, L0625: 1, L0649: 1, L0776: 1, L0517: 1, L0382: 1, L0367: 1, L0793: 1, L0663: 1, H0697: 1, H0593: 1, H0689: 1, H0670: 1, H0660: 1, S0380: 1, H0522: 1, H0694: 1, H0134: 1, S0406: 1, S0037: 1, L0754: 1, L0752: 1, L0755: 1, L0757: 1, L0759: 1, L0596: 1, L0599: 1, H0665: 1, H0667: 1, H0136: 1, S0196: 1, S0452: 1 and H0506: 1.	11p15	108985, 186921, 602092
HSOAN18	996804	278	630 - 409	2453	Val-1 to Asn-6.	L0731: 3, H0632: 1, H0052: 1, H0628: 1, L0766: 1, L0636: 1, L0545: 1, L0543: 1, H0658: 1, L0740: 1, L0750: 1, L0752: 1, S0260: 1 and H0293: 1.			
HHEHF49	996874	279	698 - 222	2454		L0755: 3, L0766: 2, L0794: 1, L0759: 1 and H0343: 1.		H0684: 38, H0703: 27, H0685: 23, H0717: 21,	

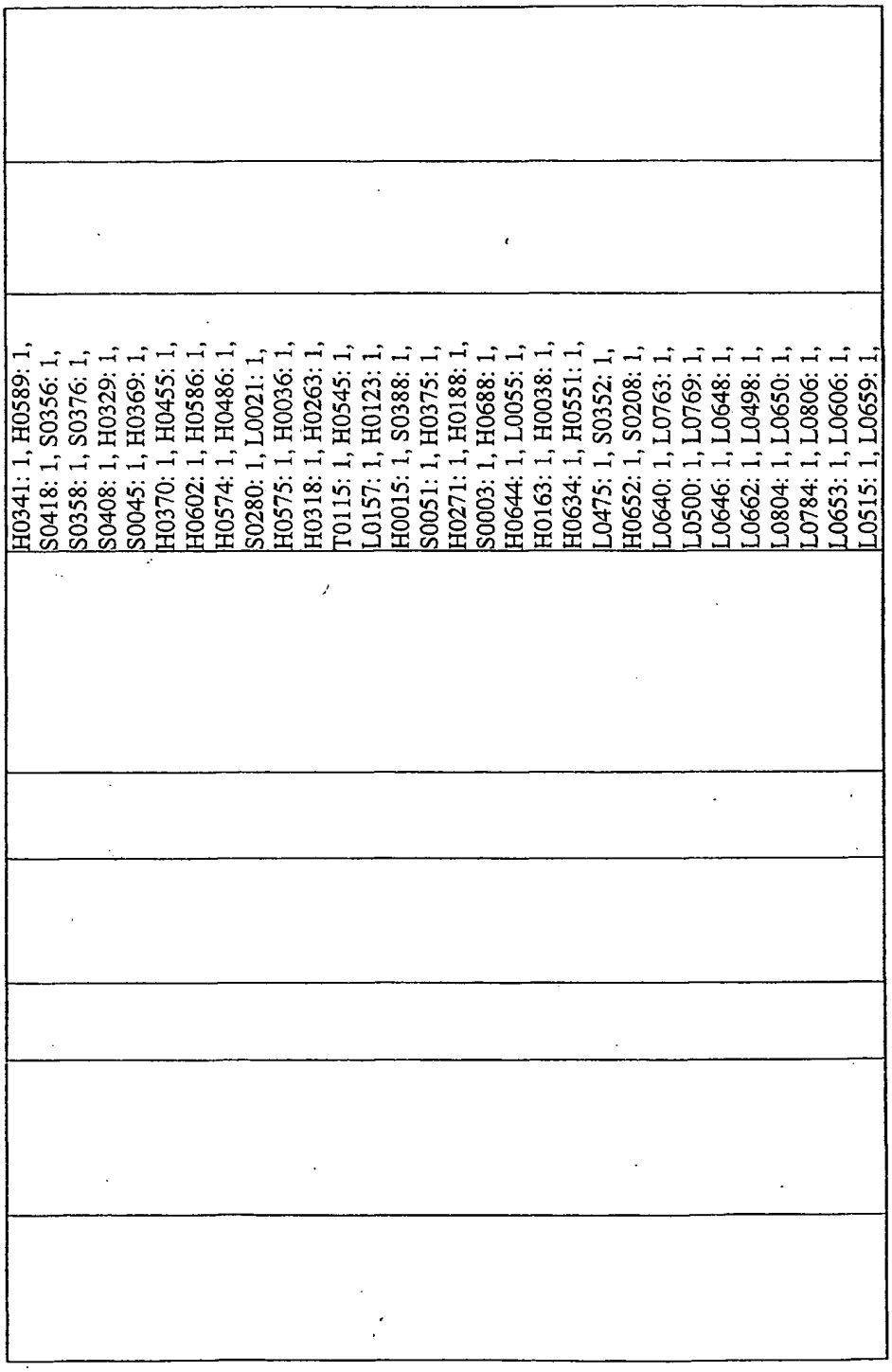
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HCHCF36	996903	280	10 - 711	2455	Lys-43 to Tyr-48, Arg-73 to Arg-79, Pro-183 to Gly-188, Pro-192 to Ser-201.	L0769: 6, L0747: 5, H0619: 2, L0761: 2, L0794: 2, L0803: 2, L0659: 2, L0809: 2, L0744: 2, L0745: 2, H0583: 1, H0483: 1, H0580: 1, H0592: 1, H0581: 1, H0052: 1, H0264: 1, H0561: 1,	19q13.1-q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400,

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HAHCK58	997127	281	1 - 228	2456	Glu-1 to Thr-9, Asn-17 to Ser-34.	L0748: 16, S0007: 7, H0360: 7, H0046: 6, L0803: 5, L0747: 5, L0771: 4, L0794: 4, L0731: 4, H0486: 3, L0666: 3, L0663: 3, L0665: 3, L0439: 3, L0758: 3, H0637: 2, H0261: 2, S0222: 2, H0052: 2, S0051: 2, H0622: 2, H0169: 2, L0598: 2, L0637: 2, H0144: 2, H0436: 2, L0754: 2, H0170: 1, S0134: 1, H0650: 1, S0116: 1, S0282: 1, S0418: 1, S0376: 1, H0580: 1, S0045: 1, H0393: 1, L0622: 1, L0623: 1, S0280: 1,		

HETIJ06	997165	282	41 - 385	2457	Leu-6 to Ser-11.	L0021: 1, H0599: 1, H0318: 1, S0474: 1, H0150: 1, H0041: 1, H0050: 1, S0388: 1, H0271: 1, S0003: 1, H0673: 1, L0456: 1, H0135: 1, H0412: 1, H0056: 1, H0623: 1, S0386: 1, S0112: 1, H0494: 1, S0144: 1, S0344: 1, H0529: 1, L0763: 1, L0638: 1, L0646: 1, L0764: 1, L0766: 1, L0650: 1, L0375: 1, L0653: 1, L0776: 1, L0783: 1, L0543: 1, L0647: 1, L0787: 1, L0788: 1, L0664: 1, L0352: 1, H0547: 1, H0593: 1, H0690: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, S0206: 1, L0759: 1, S0434: 1, L0595: 1, H0668: 1, S0026: 1 and H0293: 1.	S0402: 1, S0360: 1,	

						H0046: 1, H0252: 1 and H0428: 1.		
HAPOE30	997595	283	244 - 759	2458	Glu-6 to Trp-12, Leu-36 to Glu-57, Pro-74 to Asn-88, Ser-119 to Glu-131, Pro-139 to Asp-153.	L0777: 9, L0803: 5, L0748: 5, L0663: 4, L0754: 4, L0747: 4, L0753: 4, L0758: 4, L0766: 3, H0659: 3, L0763: 2, L0519: 2, L0665: 2, S0126: 2, L0602: 2, L0439: 2, L0750: 2, T0002: 1, H0686: 1, S0040: 1, S0116: 1, S0222: 1, H0575: 1, H0122: 1, H0004: 1, H0309: 1, L0040: 1, L0163: 1, H0028: 1, H0615: 1, H0040: 1, L0770: 1, L0764: 1, L0773: 1, L0662: 1, L0794: 1, L0774: 1, L0805: 1, L0655: 1, L0657: 1, L0526: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, T0068: 1, H0670: 1, H0672: 1, L0744: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0752: 1, L0731: 1, L0759: 1,		

HRGDC33	997862	284	229 - 738	2459			L0591: 1 and S0011: 1.			
HMTMB91	997873	285	1037 - 1174	2460	Lys-1 to Arg-46.		H0134: 1 and L0756: 1.	L0794: 11, L0803: 10, H0013: 6, H0090: 6, L0766: 6, L0663: 6, L0731: 6, H0457: 5, H0328: 5, L0493: 5, L0666: 5, L0777: 5, L0759: 5, L0754: 4, L0779: 4, H0305: 3, L0665: 3, H0144: 3, H0670: 3, H0696: 3, L0591: 3, H0657: 2, S0442: 2, S0360: 2, L0717: 2, H0600: 2, H0156: 2, H0590: 2, H0024: 2, H0615: 2, L0483: 2, T0042: 2, S0422: 2, H0529: 2, L0625: 2, L0805: 2, L0776: 2, L0655: 2, L0527: 2, S0374: 2, H0521: 2, H0436: 2, L0745: 2, L0588: 2, L0581: 2, L0361: 2, H0542: 2, S0424: 2, H0624: 1, H0171: 1, H0686: 1, T0049: 1, H0650: 1, H0656: 1,			


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S0003: 1, H0688: 1,
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H0163: 1, H0038: 1,
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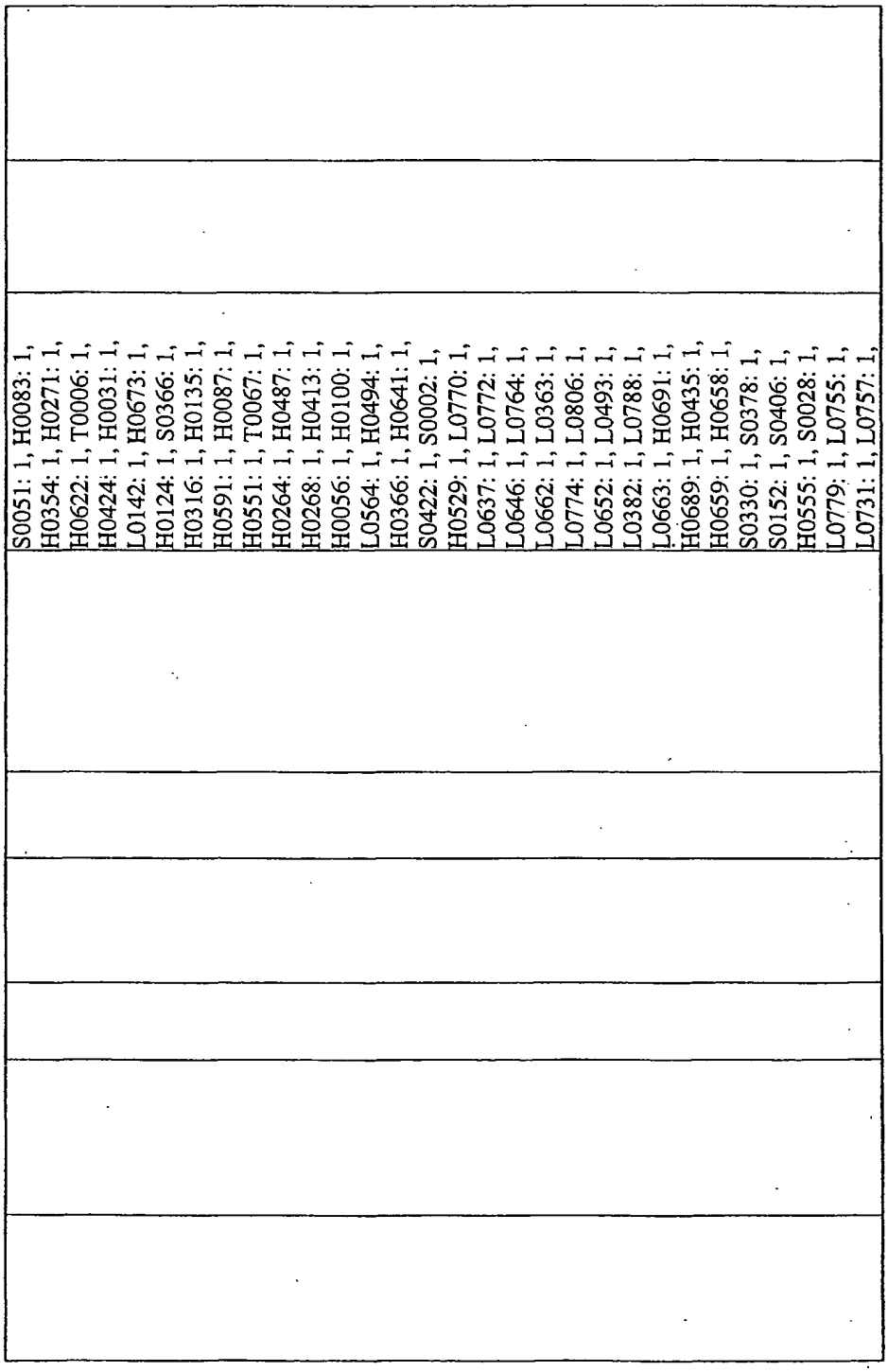
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HFAAD07	998059	286	238 - 957	2461	Ser-62 to Thr-67, Val-74 to Cys-79, Thr-118 to Gln-132, Glu-204 to Asp-219, Pro-225 to Arg-235.	L0809: 5, L0439: 4, L0591: 2, S6024: 1, H0341: 1, H0346: 1, S0356: 1, S0358: 1, S0360: 1, L0040: 1, H0457: 1, H0494: 1, L0518: 1, L0666: 1, L0665: 1, S0330: 1, H0521: 1, L0752: 1, L0731: 1, L0758: 1, L0590: 1 and L0599: 1.			
HE8TG67	998517	287	1211 - 1360	2462	Pro-24 to His-31.		3q28	165500, 600700	

HACNC39	998533	288	36 - 380	2463	Glu-14 to Lys-25.	L0748: 9, L0769: 7, L0776: 6, L0747: 6, L0768: 5, L0775: 5, L0750: 5, S0358: 4, S0144: 4, L0763: 4, L0731: 4, L0757: 4, L0588: 4, H0657: 3, S0046: 3, H0545: 3, S0438: 3, S0422: 3, L0770: 3, L0517: 3, S0406: 3, L0755: 3, T0049: 2, H0341: 2, S0408: 2, S0410: 2, H0580: 2, S0222: 2, H0586: 2, L0622: 2, T0109: 2, H0083: 2, H0551: 2, H0100: 2, H0396: 2, S0440: 2, S0210: 2, L0520: 2, L0764: 2, L0767: 2, L5574: 2, L0540: 2, L0518: 2, L0809: 2, S0330: 2, S0380: 2, L0758: 2, S0031: 2, H0543: 2, H0170: 1, H0685: 1, H0716: 1, H0295: 1, S0212: 1, S0110: 1, S0282: 1, S0420: 1, S0444: 1, H0351: 1, H0411: 1,		

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HCOQP78	998901	289	45 - 989	2464	Thr-10 to Ala-18, Pro-56 to His-64, Pro-66 to Leu-74, Ser-81 to Asp-86, Glu-93 to Trp-101, Leu-143 to Gln-151, Pro-162 to Asp-171, Thr-216 to Asp-224, Pro-235 to Gln-246, Lys-258 to Gly-268, Trp-283 to Gly-295.	H0494: 4, L0794: 3, H0670: 2, L0751: 2, H0661: 1, H0602: 1, H0587: 1, H0014: 1, H0688: 1, L0376: 1, L0806: 1, L0657: 1 and L4501: 1.	19q13	109560, 205900, 600652, 600757
HCGMA67	998905	290	2 - 664	2465		H0521: 22, L0601: 8, H0266: 7, S0126: 7, L0748: 6, H0556: 4, S0356: 4, S0358: 4, H0052: 4, L0771: 4, L0655: 4, L0777: 4, H0599: 3, H0581: 3, H0046: 3, H0615: 3, H0038: 3, H0616: 3, S0144: 3, L0766: 3, L0664: 3, L0665: 3, H0547: 3, S3014: 3, L0758: 3, L0759: 3, L0596: 3, H0542: 3, H0423: 3, H0295: 2, T0049: 2, S0360: 2, H0580: 2, S0045: 2, S0132: 2, H0393: 2,		

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HSKHK19	998968	291	2 - 673	2466	Ala-1 to Arg-26, Thr-32 to Gln-37.		L0769: 7, L0751: 6, L0666: 4, L0749: 3, H0030: 2, S0002: 2, L0805: 2, L0653: 2, H0657: 1, H0675: 1, S0007: 1, L0717: 1, H0635: 1, L0021: 1, H0068: 1, H0494: 1, L0638: 1, L0639: 1, L0772: 1, L0764: 1, L0773: 1, L0648: 1, L0803: 1, L0784: 1, L0806: 1, L0657: 1, H0658: 1, S3014: 1, L0747: 1, L0750: 1, L0780: 1, L0759: 1, L0588: 1, L0601: 1 and H0542: 1.	7q35-q36	118425, 118425, 118425, 142335, 152427, 163729, 176450, 180105, 190605, 276000, 276000, 600510, 600725
HAGGR59	999124	292	30 - 596	2467	Asp-20 to Ile-37, Arg-63 to Met-71, Gly-80 to Gly-95, Lys-98 to Thr-162.		H0556: 1, H0650: 1, S0001: 1, S0376: 1, S0346: 1, H0328: 1, L0800: 1, L0649: 1, H0689: 1, H0660: 1 and H0445: 1.		
HOPKS83	999148	293	419 - 1894	2468	Pro-72 to Tyr-80, Pro-98 to Ser-108,		S0278: 22, L0439: 20, L0665: 16, L0438: 15,		

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					Thr-132 to Gly-146, Pro-170 to Ala-177, Ser-265 to Pro-280, Pro-303 to Asp-309, Asp-349 to Ala-354, Arg-387 to Ser-393, Asn-434 to Tyr-439, Gln-452 to Gly-457, Asp-469 to Val-485.	

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HE8CY70	999157	294	691 - 1368	2469	Lys-117 to Pro-123, Asp-132 to Lys-137, Ala-153 to Met-158, Ser-166 to Asp-172, Lys-184 to Tyr-190, Glu-199 to Lys-205.	H0441: 3, H0672: 2, H0555: 2, H0208: 1, S6016: 1, S0222: 1, H0586: 1, H0013: 1, S0049: 1, H0052: 1, H0545: 1, H0046: 1, S0051: 1, T0023: 1, H0617: 1, H0264: 1, H0647: 1, L0438: 1, L0751: 1, L0756: 1 and H0506: 1.			
HPCTI53	999243	295	1 - 474	2470	Pro-1 to Pro-6, Thr-134 to Gln-140, Tyr-142 to Arg-150.	H0052: 45, H0384: 21, L0748: 20, S0222: 14, S0010: 9, H0441: 6, S0049: 6, L0456: 6, S0346: 5, L0769: 5, S6028: 4, H0428: 4, L0770: 4, L0638: 4, L0438: 4, H0659: 4, L0750: 4, L0753: 4, H0619: 3, S0300: 3, T0010: 3, S0036: 3, H0624: 2, H0717: 2, S6024: 2, H0156: 2,	Xq11	313700, 313700, 313700, 313700, 313700	

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HOPKN50	999313	296	65 - 1582	2471	Glu-47 to Phe-69, Lys-76 to Lys-82, Gly-87 to Ser-98, Glu-107 to Asp-117, Leu-171 to Val-180.	H0341: 2, H0013: 2, L0471: 2, H0266: 2, H0144: 2, L0591: 2, S0011: 2, H0624: 1, H0657: 1, H0151: 1, H0083: 1, H0328: 1, H0316: 1, H0591: 1, H0616: 1, H0412: 1, H0561: 1, S0210: 1, H0684: 1, S0152: 1, L0748: 1, L0749: 1, S0026: 1, H0542: 1 and H0543: 1.		
HAPAI17	999778	297	2 - 115	2472	Val-13 to Gln-26.	H0042: 1, L0769: 1 and H0659: 1.		
HHAUV59	999808	298	14 - 715	2473	Glu-1 to Gly-12, Lys-32 to Arg-37, Asn-45 to Ser-58, Asp-82 to Gln-97, Gly-136 to Gln-142,	L0761: 3, H0740: 2, L0803: 2, L0718: 2, H0624: 1, S0418: 1, H0208: 1, H0013: 1, H0427: 1, H0544: 1,		

HTXLL31	1000315	299	1 - 747	2474	Pro-176 to Pro-199, Val-219 to Pro-226.	H0622: 1, L0769: 1, L0789: 1, H0547: 1, H0519: 1, L0750: 1 and S0434: 1.		
					Ile-5 to Lys-10, Glu-47 to Leu-57, Glu-144 to Pro-151, Lys-212 to Asn-217, Pro-219 to Leu-228.	L0803: 6, L0731: 6, L0596: 6, L0665: 5, H0591: 3, L0794: 3, L0804: 3, L0748: 3, L0777: 3, L0717: 2, H0586: 2, L0471: 2, H0622: 2, H0641: 2, L0771: 2, L0662: 2, L0766: 2, L0649: 2, L0664: 2, H0682: 2, H0670: 2, H0539: 2, H0518: 2, L0758: 2, L0759: 2, H0445: 2, S0242: 2, H0422: 2, H0171: 1, H0556: 1, H0657: 1, H0656: 1, H0341: 1, S0282: 1, S0354: 1, S0360: 1, H0574: 1, H0427: 1, H0575: 1, H0057: 1, H0014: 1, H0551: 1, H0646: 1, H0529: 1, L0763: 1, L0761: 1, L0764: 1, L5574: 1, L0775: 1, L0805: 1, L0776: 1, L0657: 1,		

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HDPUH64	1000339	300	2 - 499	2475			H0615: 5, L0766: 4, H0272: 1, H0560: 1, H0521: 1 and H0677: 1.			
HTTHS93	1000424	301	725 - 1024	2476			S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.			
HMVCG79	1000582	302	3 - 854	2477		Thr-40 to Arg-46, Leu-59 to Ser-68, Leu-236 to Thr-241, Asp-278 to His-284.	AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 4, AR039: 3, AR052: 3, AR053: 3, AR061: 2, AR055: 1 S0002: 4, S0206: 4, L0748: 2, L0740: 2, L0777: 2, S0212: 1, H0661: 1, S0278: 1, H0370: 1, H0123: 1,			

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HODHK20	1000669	303	52 - 648	2478	Gly-2 to Ile-8, Glu-13 to Ser-25, Glu-41 to Gly-52.	H0615: 2, S0376: 1, L0766: 1 and L0754: 1.			
HCHMO53	1000875	304	2 - 661	2479	Pro-2 to Gly-25, Gly-40 to Lys-62, Arg-73 to Ala-80, Phe-179 to Arg-184, Pro-190 to His-195, Glu-211 to Ala-219.	AR060: 16, AR052: 8, AR053: 7, AR033: 6, AR104: 6, AR089: 6, AR039: 5, AR061: 5, AR096: 4, AR055: 2 L0776: 8, L0731: 8, S0438: 6, L0752: 6, H0677: 6, S0410: 5, S0440: 5, L0764: 5, L0749: 5, T0049: 4, S0132: 4, L0766: 4, H0648: 4, L0759: 4, L0519: 3, H0684: 3, L0748: 3, L0747: 3, L0757: 3, S0358: 2, S0444: 2, T0006: 2, L0775: 2, L0806: 2, S0152: 2, L0751: 2, L0750: 2, L0758: 2, S0436: 2, H0423: 2, H0624: 1, H0556: 1, H0157: 1, H0295: 1,			

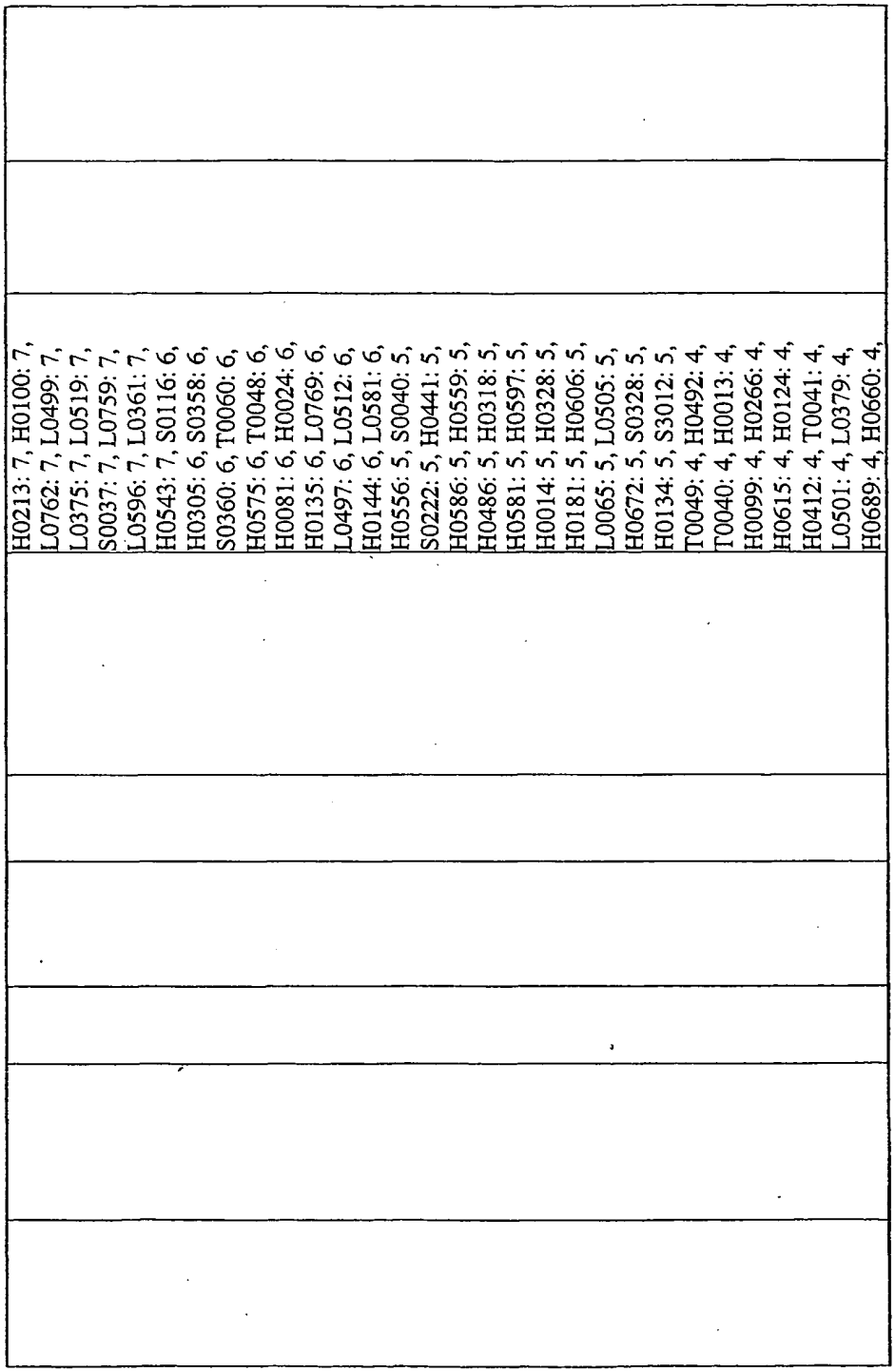
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								Gly-33 to Trp-52, Tyr-104 to Ser-110,		AR096: 32, AR104: 27, AR089: 24, AR060:
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HOFMT20	1001333	306	127 - 267	2481	Ser-5 to Glu-12.	H0415: 2		
HPAMB04	1001695	307	40 - 621	2482	Lys-106 to Leu-111.	H0641: 38, S0360: 10, L0731: 8, H0542: 7, H0422: 7, H0545: 6, H0521: 6, L0750: 6, H0423: 6, H0617: 5,		

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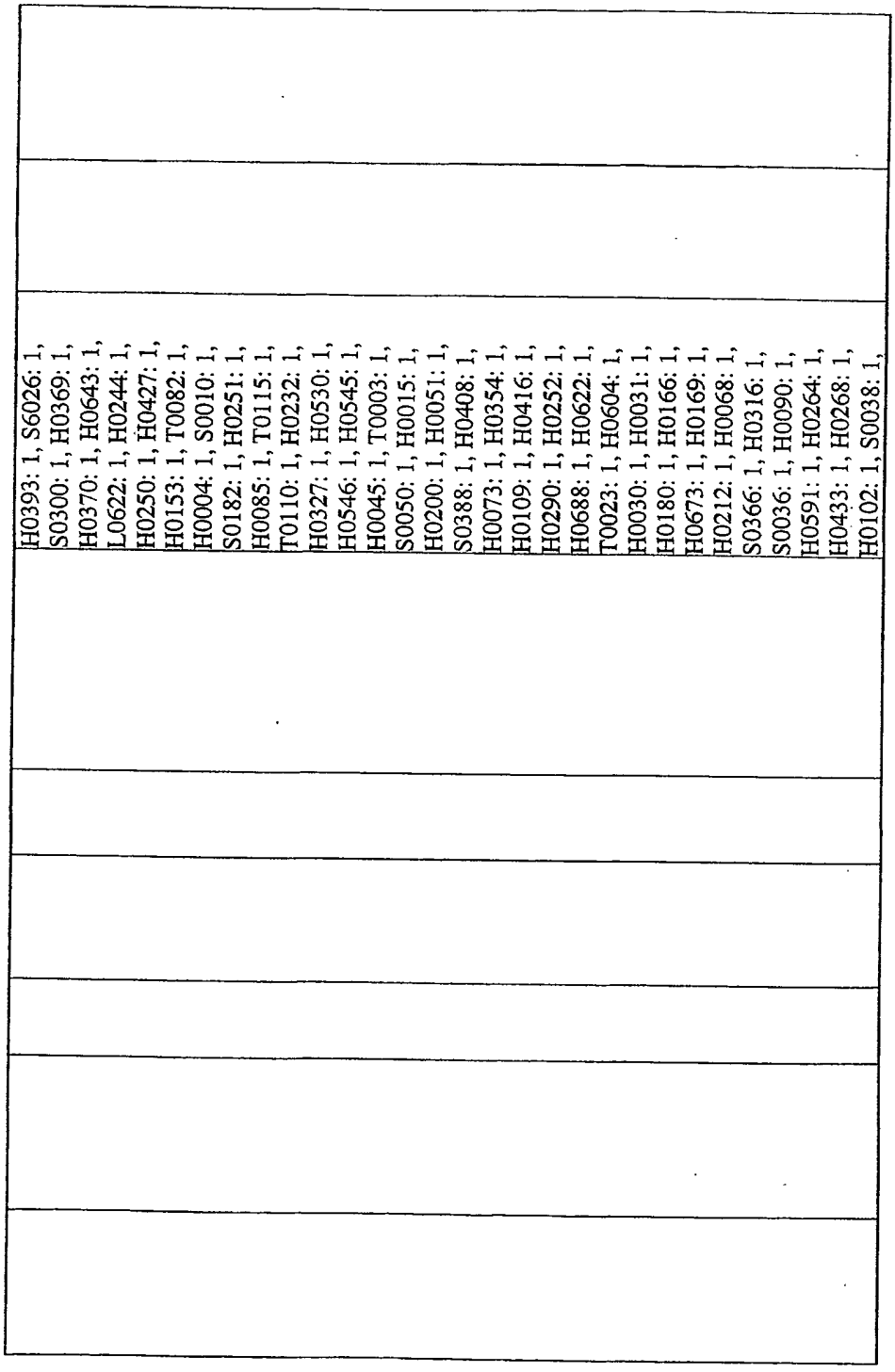
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HODEK48	1001901	308	368 - 682	2483	Thr-2 to Gln-8, Glu-20 to Gly-26.	H0615: 2, L0794: 2 and H0266: 1.		
HVVCB28	1001954	309	328 - 807	2484	Ile-8 to Gly-13, Pro-62 to Phe-68, Gly-95 to Gly-101, Ser-108 to Val-114, Glu-129 to Leu-146.	H0617: 43, H0341: 38, S0046: 37, L0747: 34, S0126: 30, L0507: 29, L0500: 29, S0007: 28, H0087: 28, L0775: 28, L0509: 28, H0594: 27, H0333: 24, L0772: 24, S0132: 23, H0620: 23, L0502: 23, L0768: 21,	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850,

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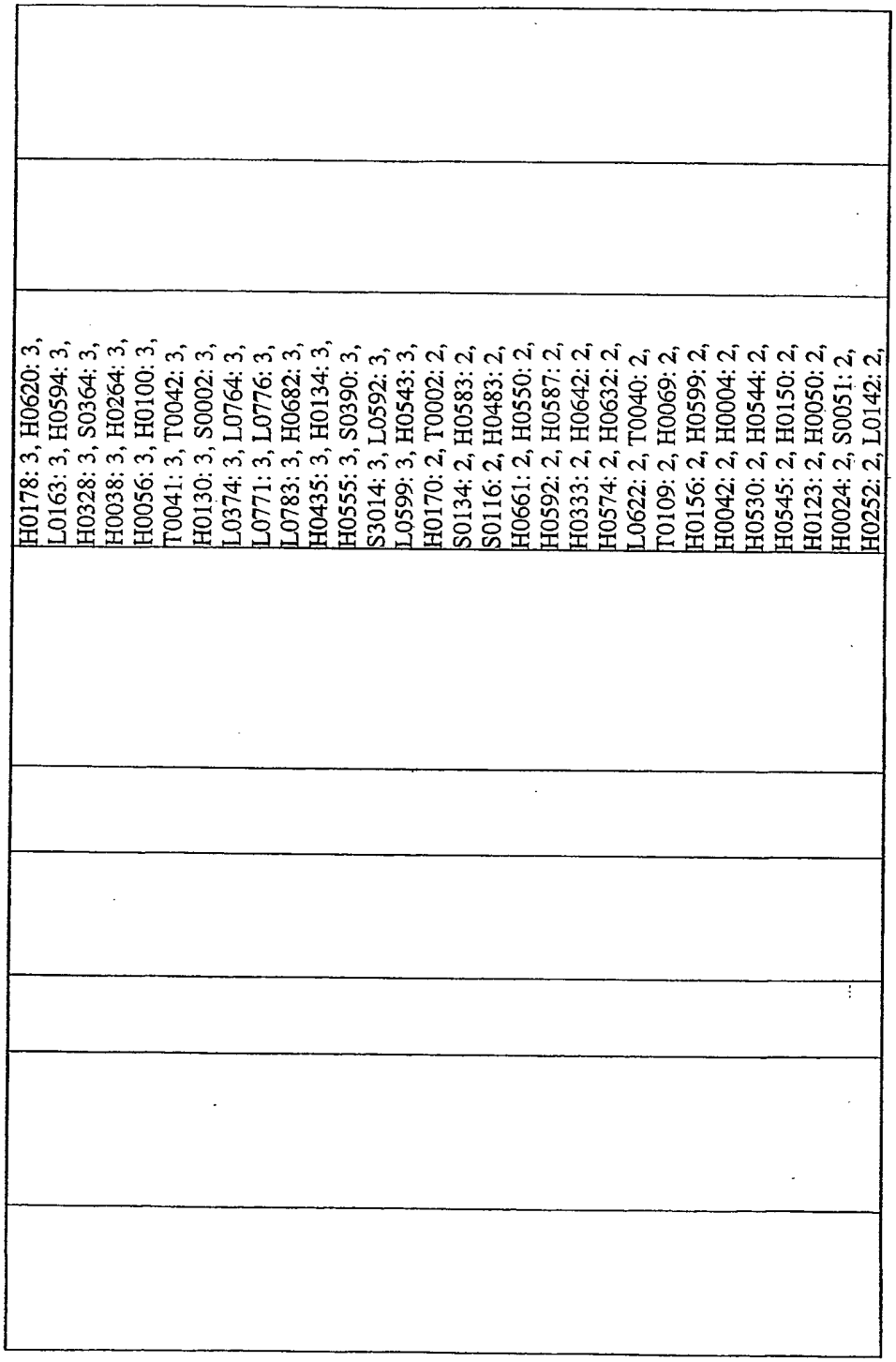
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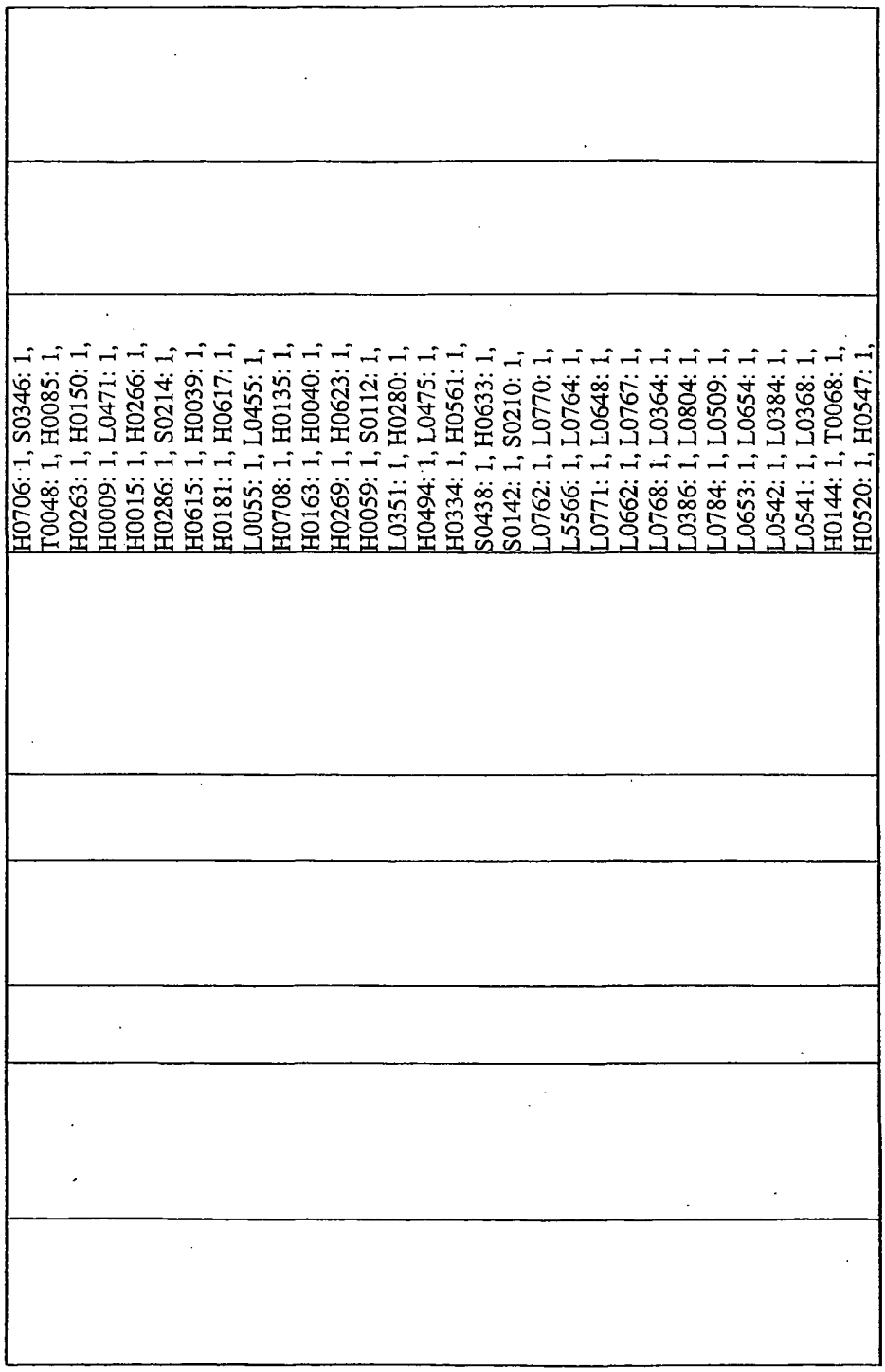
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HODIL25	1002551	320	195 - 1556	2495	Ser-30 to Lys-46, Leu-55 to Gly-67, Ile-80 to Asp-85, Glu-146 to Arg-155, Asn-182 to Arg-192.		H0040: 6, H0013: 3, S0136: 3, L0777: 3, H0542: 3, H0171: 2, H0581: 2, H0328: 2, H0615: 2, L0662: 2, H0144: 2, L0731: 2, H0624: 1, H0170: 1, H0556: 1, S0282: 1, H0661: 1, H0176: 1, H0402: 1, S0354: 1, S0360: 1, H0393: 1, S6014: 1, H0574: 1, H0427: 1, H0575: 1, L0157: 1, S0003: 1, H0553: 1, H0090: 1, H0591: 1, T0067: 1, H0264: 1, H0412: 1, T0041: 1, H0494: 1, H0646: 1, S0002: 1, L0646: 1, L0642: 1, L0645: 1, L0651: 1, L0655: 1, L0659: 1, L0791: 1, L0666: 1,		

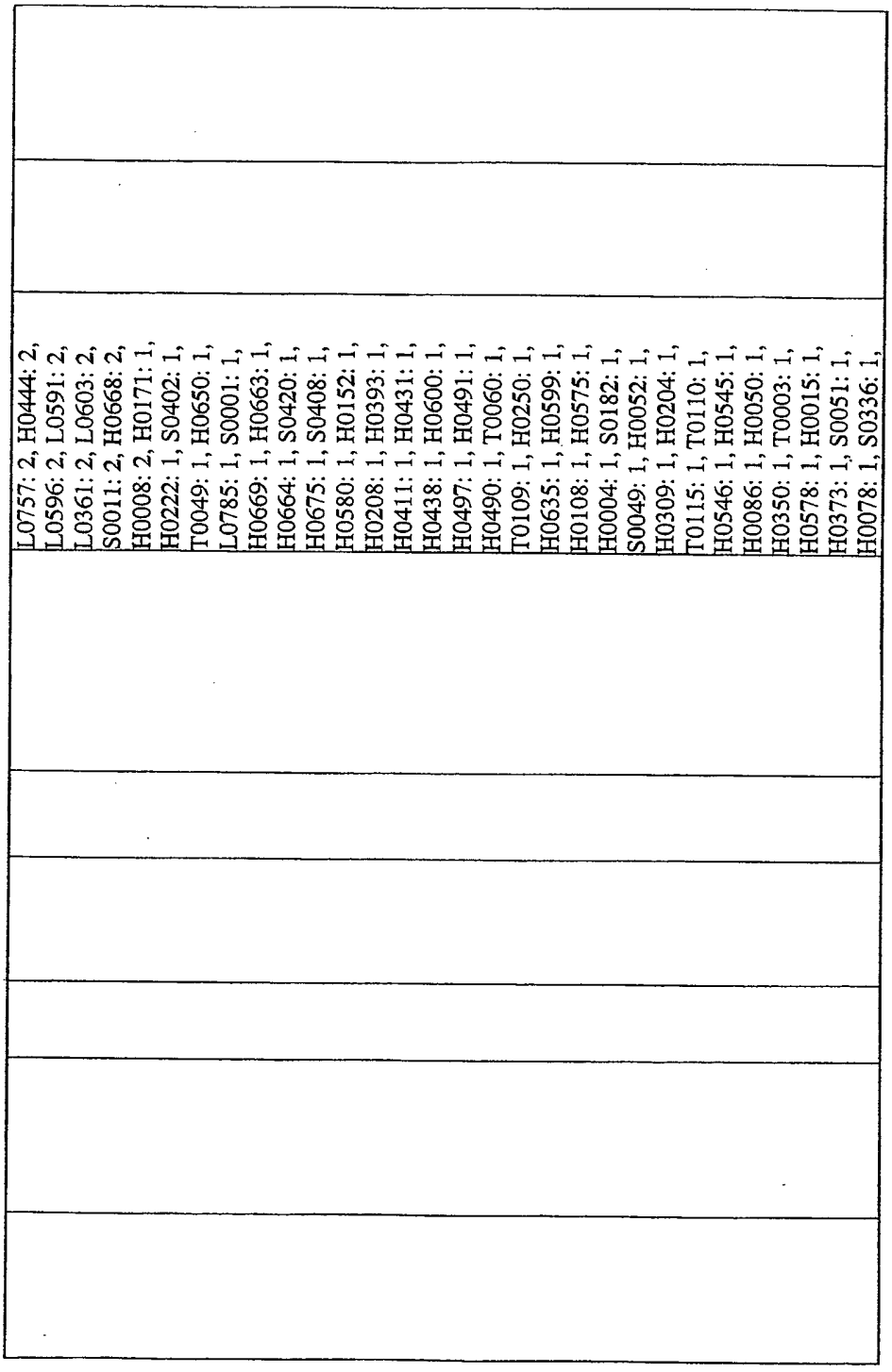
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HUVHS56	1002563	321	162 - 791	2496	Gln-34 to Pro-41, Lys-60 to Thr-71, Val-78 to Gln-86, His-139 to Tyr-149, Arg-183 to His-191.	L0803: 4, L0793: 4, L0749: 4, L0438: 3, L0439: 3, S0420: 2, H0485: 2, H0038: 2, H0561: 2, L0804: 2, L0747: 2, L0779: 2, L0591: 2, H0265: 1, H0556: 1, S0418: 1, H0728: 1, H0208: 1, H0619: 1, S0278: 1, H0486: 1, H0244: 1, H0052: 1, S0366: 1, H0598: 1, H0623: 1, L0640: 1, L0364: 1, L0774: 1, L0776: 1, L0807: 1, L0659: 1, L0809: 1, L0791: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, H0522: 1, S3014: 1, L0752: 1, L0759: 1, H0445: 1, S0436: 1 and L0599: 1.		
HPMJQ18	1002565	322	392 - 823	2497	Gln-29 to Gln-42.	H0644: 4, S0036: 1 and			

						H0521: 1.		
HLHCI46	1002591	323	114 - 923	2498	Glu-1 to Asp-13, His-55 to Leu-66, Gln-69 to Cys-79, Thr-81 to Asp-90, Gln-132 to Arg-141, Asp-158 to Trp-169, Lys-171 to Asn-180, His-208 to Arg-221, Pro-229 to Glu-237.	L0591: 15, L0751: 13, L0665: 11, L0754: 9, H0689: 6, L0750: 6, H0362: 3, H0688: 3, H0617: 3, L0774: 3, L0657: 3, H0658: 3, H0575: 2, H0615: 2, H0059: 2, H0690: 2, H0660: 2, S0328: 2, S0330: 2, L0743: 2, L0756: 2, L0755: 2, H0671: 1, H0282: 1, H0024: 1, T0006: 1, H0644: 1, H0647: 1, L0769: 1, L0662: 1, L0803: 1, L0806: 1, L0783: 1, L0809: 1, L0664: 1, H0682: 1, L0748: 1, L0596: 1 and L0599: 1.		
HAOSD18	1002607	324	29 - 1408	2499	Arg-12 to Arg-19, His-62 to Leu-73, Ser-103 to Thr-111, Asn-147 to Val-158, Phe-207 to Trp-213, Lys-243 to Lys-276, Ala-281 to Cys-289, Pro-297 to Pro-302, Glu-315 to Asp-324,			

					His-336 to Trp-342, Arg-371 to Lys-377, Asp-416 to Thr-432.			
HACNG47	1002610	325	2 - 361	2500	Pro-1 to Lys-7.			
HOPJX95	1002729	326	229 - 681	2501	Val-105 to Ile-113, Asp-128 to Phe-137, Arg-145 to Arg-151.	H0341: 33, S0126: 19, L0471: 17, H0087: 17, H0659: 17, H0670: 17, H0333: 14, H0024: 14, H0685: 13, S0114: 13, S0358: 13, H0648: 13, S0046: 12, L0742: 12, L0588: 12, S0278: 11, H0594: 11, H0352: 11, S0134: 10, L0748: 10, S0116: 9, H0620: 9, L0754: 9, L0750: 9, H0422: 9, H0255: 8, S0007: 8, S0132: 8, H0318: 8, H0081: 8, H0012: 8, H0083: 8, S3012: 8, S3014: 8, H0543: 8, H0265: 7, H0009: 7, H0039: 7, S0027: 7, S0028: 7, H0295: 6, H0657: 6, L0622: 6, L0540: 6, H0436: 6, H0576: 6, H0624: 5, S0360: 5, H0351: 5, L0623: 5, H0069: 5, H0530: 5,	19q	

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HSCLR05	1002807	327	3 - 242	2502	Lys-1 to Asn-10, Phe-40 to Gly-55, Asn-61 to Arg-66.	L0748: 3, H0486: 1, H0428: 1, H0034: 1, H0690: 1, H0435: 1, H0658: 1, H0653: 1 and L0465: 1.		
HVVAO74	1002811	328	37 - 831	2503	Pro-107 to Gly-118, Gly-128 to Ser-140, Asp-148 to Glu-166, Ala-173 to Ala-186, Arg-196 to Ala-210, Ile-219 to Trp-228, Asn-238 to Met-251.	L0777: 17, L0766: 11, S0360: 10, L0748: 10, H0620: 8, H0124: 8, L0770: 8, H0295: 7, S0408: 7, S0046: 6, L0775: 6, L0659: 6, L0744: 6, L0595: 6, S0278: 5, S0440: 5, L0769: 5, L0655: 5, L0657: 5, L0666: 5, L0731: 5, H0556: 4, H0484: 4, S0358: 4, H0580: 4, S0222: 4, H0559: 4, H0052: 4, H0545: 4, H0673: 4,	12q23-q24	113100, 124200, 147440, 158590, 160781, 163950, 163950, 235800, 251170, 276710, 600175, 601517

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HVVBI81	1003126	329	199 - 843	2504	Asp-45 to Pro-56, Thr-86 to Ser-91, Pro-127 to Arg-133, Asp-201 to Gln-215.	L0777: 14, L0748: 11, L0747: 7, L0752: 7, H0295: 6, L0769: 6, L0749: 4, L0755: 4, H0341: 3, H0580: 3, H0581: 3, H0529: 3, L0770: 3, L0751: 3, L0750: 3, L0756: 3, L0605: 3, L0601: 3, L0615: 2, S0116: 2, H0402: 2, S0132: 2, H0575: 2, H0253: 2, H0309: 2, H0081: 2,	19q13.1-q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400, 173850, 180901, 180901,

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				Lys-75 to Lys-80, Leu-138 to Tyr-144, Tyr-153 to Pro-159.	L0740: 11, L0751: 11, L0731: 7, L0758: 7, H0659: 6, H0672: 6, L0748: 6, L0759: 6, H0251: 5, H0441: 4, L0766: 4, L0806: 4, S0040: 3, H0551: 3, H0412: 3, S0422: 3, L0774: 3, L0775: 3, H0648: 3, H0521: 3, L0754: 3, L0747: 3, L0752: 3, L0755: 3, S0026: 3, H0624: 2, H0341: 2, S0298: 2, S0358: 2, S0360: 2, S0046: 2, H0333: 2, H0318: 2, H0009: 2, H0024: 2, H0083: 2, S0214: 2, H0617: 2,	1p34.2	
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		185 - 925					
		330					
	1003155						
HVVBK18							

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HOFMS19	1003222	331	12 - 317	2506		H0415: 2	21q11.2-q21.1	159595
HSCLM55	1003224	332	1 - 768	2507	Phe-2 to Asp-14, Leu-35 to Ile-42, Leu-63 to Lys-69, Thr-79 to Glu-84, Ile-137 to Gln-149, Thr-195 to Asp-200, Lys-216 to Glu-222, Asn-228 to Asn-233.			
HETJU23	1003706	333	860 - 1477	2508		AR055: 9, AR061: 8,		

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				2509			
			3 - 515				
		334					
	1004480						
HNOKB73							

HODFB06	1004583	335	392 - 550	2510	Phe-11 to Gly-16, Gln-44 to Ile-53.	H0615: 3 and L0740: 1.			
HODJA76	1004619	336	198 - 302	2511	Ser-1 to Cys-12, Gly-16 to Val-29.	H0615: 1			
HODJY60	1004625	337	111 - 683	2512	Arg-1 to Gly-8, Thr-82 to Thr-95, Ser-104 to Ile-110, Asn-136 to Glu-141.	H0428: 1, H0048: 1, H0591: 1, L0774: 1, L0806: 1, L0809: 1, L0790: 1, L0664: 1, H0690: 1, L0751: 1, L0756: 1, L0758: 1, S0436: 1 and S0242: 1.			
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HODEF10	1004627	338	1 - 231	2513	His-7 to Gly-17, Phe-24 to Trp-40.	H0615: 2			
HODFB03	1004631	339	1 - 711	2514	Gln-24 to Leu-29, His-38 to Asn-50, Gly-117 to Tyr-128, Ser-135 to Pro-147.	S0354: 1, H0083: 1, H0615: 1 and H0665: 1.	6p12-p11.1	180297, 230450, 263200, 601690	
HPMLN08	1004632	340	518 - 1294	2515		L0752: 14, L0777: 12, L0754: 11, L0731: 11, H0692: 10, L0758: 8, L0766: 6, L0759: 6, S0358: 5, L0809: 5, S0222: 4, S0003: 4, H0328: 4, L0769: 4, L0771: 4, L0803: 4,			

L0740: 4, S0194: 4,
L0005: 3, S0360: 3,
H0068: 3, H0494: 3,
L0774: 3, L0775: 3,
L0776: 3, H0521: 3,
L0747: 3, L0749: 3,
L0757: 3, H0170: 2,
H0713: 2, S0444: 2,
H0427: 2, H0156: 2,
S0010: 2, L0157: 2,
H0687: 2, T0006: 2,
H0628: 2, H0169: 2,
H0598: 2, L0662: 2,
L0768: 2, L0805: 2,
L0666: 2, L0438: 2,
H0547: 2, H0670: 2,
H0648: 2, H0539: 2,
L0748: 2, L0589: 2,
L0599: 2, H0556: 1,
T0002: 1, L0002: 1,
H0341: 1, H0720: 1,
S0400: 1, H0483: 1,
H0402: 1, H0638: 1,
S0442: 1, S0376: 1,
H0733: 1, S0132: 1,
H0645: 1, L0717: 1,
H0431: 1, H0331: 1,
H0486: 1, H0013: 1,
H0036: 1, H0590: 1,
H0052: 1, H0309: 1,

		H0327: 1, H0050: 1, L0471: 1, H0024: 1, S0388: 1, H0510: 1, H0266: 1, H0271: 1, H0428: 1, H0039: 1, H0644: 1, L0055: 1, H0673: 1, H0212: 1, S0036: 1, H0038: 1, H0272: 1, H0366: 1, S0450: 1, S0440: 1, S0210: 1, S0422: 1, S0002: 1, L0598: 1, L0638: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0643: 1, L0773: 1, L0648: 1, L0626: 1, L0794: 1, L0804: 1, L0554: 1, L0806: 1, L0807: 1, L0559: 1, L5622: 1, L5623: 1, L0789: 1, L0663: 1, S0374: 1, S0126: 1, S0122: 1, H0658: 1, S0380: 1, H0710: 1, H0478: 1, S0027: 1, S0206: 1, L0439: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1, H0343: 1, S0434: 1, L0591: 1,				

HODEH08	1004633	341	1 - 378	2516			L0608: 1, L0362: 1, H0668: 1, S0026: 1, H0653: 1 and H0423: 1.		
							H0032: 5, H0620: 4, H0599: 3, H0024: 3, H0615: 3, H0556: 2, H0141: 2, H0585: 2, S0420: 2, H0014: 2, H0212: 2, L0748: 2, L0740: 2, H0624: 1, H0170: 1, H0149: 1, H0484: 1, H0580: 1, H0393: 1, H0370: 1, H0592: 1, H0318: 1, S0049: 1, H0052: 1, H0530: 1, H0081: 1, H0012: 1, H0023: 1, H0286: 1, H0039: 1, H0135: 1, H0272: 1, H0412: 1, H0059: 1, S0440: 1, H0132: 1, S0002: 1, L0602: 1, L0746: 1, H0445: 1 and H0506: 1.		
HEGBF25	1004635	342	57 - 773	2517	Ala-1 to Gly-23, Gly-26 to Leu-32, Leu-53 to Leu-65, Gln-145 to Thr-151.		AR096: 1, AR089: 1, AR104: 0, AR055: 0, AR060: 0, AR061: 0 L0761: 3, L0439: 3, L0747: 3, L0766: 2, H0659: 2, L0779: 2,		

						L0777: 2, H0170: 1, S0360: 1, H0550: 1, H0023: 1, H0018: 1, H0641: 1, L0763: 1, L0769: 1, L0764: 1, L0803: 1, L0774: 1, L0655: 1, L0666: 1, H0648: 1 and H0436: 1.		
HODJB51	1004643	343	201 - 272	2518	Ser-1 to Asp-19.	H0328: 1 and H0615: 1.		
HODEC38	1004648	344	2 - 208	2519		L0764: 9, L0747: 6, L0766: 5, L0070: 5, L0748: 4, L0662: 3, L0749: 3, L0758: 3, L0759: 3, L0601: 3, H0574: 2, H0014: 2, H0615: 2, L0529: 2, L0666: 2, L0596: 2, H0265: 1, H0556: 1, H0583: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, L0021: 1, H0581: 1, H0309: 1, H0545: 1, H0172: 1, H0188: 1, S0214: 1, H0252: 1, H0328: 1, H0674: 1, L0456: 1, H0625: 1, H0561: 1, S0426: 1, L0763: 1, L0769: 1, L0646: 1,		

						L0641: 1, L0645: 1, L0773: 1, L0768: 1, L0794: 1, L0551: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0805: 1, L0655: 1, L0658: 1, L0659: 1, L0783: 1, L0532: 1, L0664: 1, H0521: 1, L0611: 1, S0432: 1, L0757: 1, L0589: 1, L0591: 1, L0599: 1, H0543: 1 and H0423: 1.		
HODIQ24	1004660	345	3 - 236	2520	Arg-6 to Gly-11, Pro-18 to Glu-33, Ala-48 to Asp-68.	L0794: 7, L0776: 4, L0740: 4, H0046: 3, L0805: 3, L0749: 3, H0624: 2, S0282: 2, L0157: 2, H0615: 2, L0663: 2, H0519: 2, L0748: 2, L0747: 2, L0777: 2, L0731: 2, H0686: 1, H0294: 1, H0486: 1, H0349: 1, H0009: 1, H0178: 1, H0050: 1, L0471: 1, H0328: 1, H0030: 1, H0412: 1, S0448: 1, L0764: 1, L0662: 1, L0807: 1, L0789: 1, L0792: 1, L0666: 1,		

						S0126: 1, H0670: 1, L0742: 1, L0743: 1, L0754: 1, L0779: 1, L0780: 1 and L0759: 1.		
HVVDD56	1004887	346	399 - 1400	2521	Asn-32 to Glu-42, Leu-59 to Ala-66, Leu-73 to Arg-78, Leu-100 to Leu-110, Asp-155 to Thr-161, Thr-166 to Cys-173, Leu-214 to Ser-220, Ser-227 to Lys-232, Arg-236 to Gly-242, Phe-257 to Asp-264, Arg-309 to Ala-314.	H0581: 8, H0422: 7, L0766: 5, H0521: 4, L0588: 4, S0360: 3, H0486: 3, L0663: 3, H0436: 3, S0434: 3, H0583: 2, S0298: 2, S0354: 2, S0408: 2, H0046: 2, H0622: 2, H0090: 2, H0494: 2, L0761: 2, L0655: 2, L0659: 2, H0518: 2, H0522: 2, H0696: 2, L0777: 2, H0445: 2, H0423: 2, H0556: 1, S0430: 1, H0650: 1, H0657: 1, S0116: 1, S0356: 1, S0376: 1, H0580: 1, H0586: 1, L0586: 1, H0250: 1, L0021: 1, T0071: 1, H0596: 1, H0644: 1, H0264: 1, H0412: 1, H0561: 1, S0440: 1, H0641: 1, H0649: 1, L0770: 1, L5565: 1, L0372: 1, L0642: 1,		

	HTHDV01	1004950	347	3 - 1292	2522	His-1 to Arg-20, Ala-30 to Ala-38, Ala-58 to Ser-69, Ser-138 to Pro-143, Leu-182 to Lys-198, Cys-204 to Thr-212, Ala-217 to Leu-229, Leu-237 to Lys-242, Asn-295 to Ser-302, Leu-314 to Phe-319, Ser-327 to Ser-338, Arg-409 to Ser-423.	L0387: 1, L0381: 1, L0775: 1, L0527: 1, L0664: 1, L0665: 1, S0216: 1, S0374: 1, L0565: 1, H0684: 1, H0435: 1, H0659: 1, H0648: 1, H0672: 1, H0710: 1, H0555: 1, L0748: 1, L0754: 1, L0749: 1, L0756: 1, H0595: 1 and H0543: 1. H0696: 37, H0692: 26, H0650: 22, H0271: 21, S0434: 21, S0406: 17, H0656: 13, S0360: 13, H0411: 12, H0710: 12, S0280: 11, H0416: 11, H0553: 11, L0666: 11, H0486: 10, H0581: 10, H0555: 10, L0751: 10, H0713: 9, S0354: 9, L0662: 9, S0126: 9, H0717: 8, S0358: 8, L0774: 8, H0144: 8, S0374: 8, H0670: 8, L0745: 8, H0436: 7, L0748: 7, H0013: 6, H0427: 6, H0596: 6, H0644: 6, H0674: 6, L0659: 6, L0754: 6,	14q24.3	104311, 109150, 182600, 245200, 601208

S0442: 5, H0580: 5, H0156: 5, H0457: 5, H0615: 5, H0622: 5, H0063: 5, L0776: 5, H0648: 5, H0263: 4, H0179: 4, H0031: 4, H0163: 4, L0764: 4, L0649: 4, L0438: 4, H0672: 4, L0439: 4, H0677: 4, L0600: 4, S0116: 3, S0444: 3, H0619: 3, H0421: 3, H0032: 3, S0438: 3, S0440: 3, L0598: 3, L0803: 3, L0809: 3, L0532: 3, L0664: 3, L0665: 3, H0689: 3, S0378: 3, L0756: 3, H0624: 2, H0556: 2, H0402: 2, S0356: 2, S0376: 2, S0046: 2, S0222: 2, H0574: 2, H0635: 2, H0575: 2, H0036: 2, H0597: 2, H0544: 2, H0046: 2, H0123: 2, H0050: 2, H0014: 2, H0201: 2, T0010: 2, H0355: 2, H0135: 2, T0004: 2, S0344: 2, S0002: 2,						

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					H0068: 1, H0038: 1, H0155: 1, S0294: 1, H0509: 1, H0131: 1, L0762: 1, L0763: 1, L0371: 1, L0638: 1, L5565: 1, L0373: 1, L0771: 1, L0768: 1, L0364: 1, L0650: 1, L0632: 1, L0523: 1, L0655: 1, L0783: 1, L0530: 1, L0647: 1, L0663: 1, H0725: 1, H0693: 1, L0352: 1, H0690: 1, H0660: 1, S0330: 1, S0380: 1, H0709: 1, S0350: 1, S0190: 1, S0404: 1, H0478: 1, L0611: 1, S3014: 1, S0027: 1, S0206: 1, L0740: 1, L0780: 1, L0731: 1, S0260: 1, H0445: 1, H0343: 1, L0599: 1, L0361: 1, S0462: 1 and S0456: 1.	9q34	
HVVDJ95	1005153	348	203 - 400	2523	Pro-52 to Gly-58.	H0052: 1, H0012: 1, H0271: 1, H0165: 1, H0672: 1, H0521: 1, L0439: 1, L0754: 1 and H0423: 1.		

HODIY29	1005236	349	2115 - 1081	2524	Lys-1 to Phe-58, Pro-62 to Ser-105, Arg-118 to Asp-154, Pro-181 to Pro-187, Ala-215 to Asp-221, Pro-228 to Phe-240, Pro-264 to Ser-269, Ser-281 to Asp-291, Glu-301 to Phe-314.	L0748: 11, H0591: 2, L0779: 2, L0758: 2, H0624: 1, S0342: 1, S0045: 1, H0351: 1, H0427: 1, S0010: 1, H0052: 1, H0251: 1, N0006: 1, L0471: 1, H0266: 1, H0615: 1, H0622: 1, H0031: 1, H0090: 1, H0038: 1, L0769: 1, L0761: 1, L0766: 1, L0774: 1, L0657: 1, H0593: 1, H0521: 1, H0555: 1, L0744: 1, L0747: 1, L0750: 1 and L0777: 1.	21q22.1-q22.2	215700, 223360, 268900, 601850
HOELP29	1005359	350	3 - 1013	2525	Lys-5 to Leu-10, Ser-20 to Glu-30, Leu-32 to Thr-37.	L0755: 11, L0766: 4, L0747: 4, L0764: 2, L0663: 2, H0556: 1, H0686: 1, S0444: 1, S0408: 1, H0580: 1, H0722: 1, H0290: 1, L0483: 1, H0165: 1, H0494: 1, H0132: 1, S0150: 1, S0208: 1, L0772: 1, L0768: 1,	1p32	120950, 120960, 138140, 178300, 187040, 600101, 600650, 600650, 600722, 600722

						L0784: 1, L0805: 1, H0547: 1, S0126: 1, H0659: 1, H0660: 1, H0627: 1, L0749: 1, L0779: 1, L0731: 1, L0757: 1 and H0668: 1.		
HWLFG04	1005384	351	2 - 1015	2526	Lys-9 to Thr-17, Lys-41 to Asn-55, Leu-57 to Asn-65, Val-67 to Asn-79, Ile-122 to Cys-132, Leu-135 to Ala-147, Gln-175 to Ala-197, Pro-227 to Thr-251, Pro-253 to Gly-264, Pro-288 to Glu-296, Gln-312 to Val-321.	S0358: 3, H0539: 3, L0659: 2, L0664: 2, S0354: 1, S0360: 1, S0408: 1, S0007: 1, H0318: 1, S0474: 1, H0596: 1, H0266: 1, H0412: 1, L0369: 1, L0640: 1, L0656: 1, L0666: 1, L0663: 1, H0144: 1, H0648: 1, S0044: 1, L0755: 1, L0588: 1, L0592: 1, L0608: 1, L0362: 1 and H0423: 1.	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649
HYAAC49	1005511	352	2 - 781	2527		AR089: 5, AR096: 5, AR053: 4, AR060: 3, AR039: 3, AR033: 3, AR055: 2, AR104: 2, AR061: 1 H0583: 1 and H0036: 1.		
HCOOA71	1005843	353	68 - 205	2528	Thr-34 to Ser-46.	L0777: 8, L0809: 4, L0749: 4, H0038: 3, L0769: 3, L0783: 3,		

HOUFB45	1005974	354	879 - 478	2529	Ser-1 to Ser-7, Gly-21 to Arg-37.	L0665: 4, L0779: 3, L0646: 2, L0800: 2, L0650: 2, L0659: 2, S0040: 1, S0442: 1, S0045: 1, H0619: 1, H0052: 1, H0024: 1, S0051: 1, H0604: 1, H0030: 1, H0135: 1, L0639: 1, L0761: 1, L0372: 1, L0641: 1, L0771: 1, L0766: 1, L0803: 1, L0776: 1,	22q11.23	123620, 600850
						L0740: 3, H0581: 2, H0546: 2, H0024: 2, L0521: 2, L0375: 2, H0670: 2, L0748: 2, L0758: 2, L0759: 2, H0171: 1, S0360: 1, H0351: 1, L0622: 1, H0052: 1, H0424: 1, H0617: 1, H0087: 1, H0059: 1, H0494: 1, H0646: 1, L0369: 1, L0763: 1, L0766: 1, L0776: 1, L0657: 1, L0789: 1, L0666: 1, L0663: 1, L0565: 1, H0658: 1, L0439: 1, L0750: 1, L0753: 1 and L0757: 1.		

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					Lys-5 to Met-10, Lys-79 to Ser-86, Ser-145 to Leu-154.		L0439: 13, L0777: 9, L0717: 8, L0748: 6, L0659: 5, L0747: 4, H0318: 3, L0665: 3, L0779: 3, H0170: 2, H0212: 2, L0455: 2, L0764: 2, L0662: 2, L0768: 2, L0766: 2, L0775: 2, L0655: 2, H0520: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0759: 2, L0595: 2, H0624: 1, H0171: 1, H0685: 1, H0661: 1, H0402: 1, S0046: 1, H0333: 1, T0109: 1, H0013: 1, S0280: 1, L0021: 1, H0590: 1, H0581: 1, H0374: 1, H0596: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1,
HUSJI14	1006018	355	399 - 2081	2530			

						H0328: 1, H0617: 1, H0040: 1, H0412: 1, H0494: 1, H0641: 1, L0761: 1, L0645: 1, L0773: 1, L0521: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0526: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0701: 1, L0352: 1, H0547: 1, H0658: 1, H0670: 1, H0648: 1, H0651: 1, H0436: 1, L0740: 1, L0754: 1, L0752: 1, L0757: 1, L0591: 1, L0592: 1 and H0293: 1.		
HMCDB21	1006055	356	411 - 509	2531	Asn-1 to Arg-13.	L0794: 2, L0776: 2, L0745: 2, L0758: 2, S0260: 2, S0142: 1, L0500: 1 and H0648: 1.		
HSDEY08	1006142	357	594 - 1136	2532	Leu-25 to Phe-35, Lys-48 to Asp-54, Arg-62 to Phe-72, Tyr-92 to Leu-99.	L0534: 10, L0747: 10, L0769: 8, L0751: 7, L0592: 5, H0545: 4, L0770: 4, L0761: 4, L0438: 4, H0599: 3, T0010: 3, H0553: 3, L0646: 3, H0547: 3, S0028: 3, H0101: 2,		

H0546: 2, H0050: 2, L0662: 2, L0794: 2, L0774: 2, L0378: 2, S0380: 2, L0752: 2, L0755: 2, L0758: 2, S0436: 2, L0603: 2, S0040: 1, H0295: 1, H0255: 1, S0418: 1, S0444: 1, S0360: 1, S0408: 1, H0580: 1, H0559: 1, H0156: 1, H0575: 1, H0706: 1, H0253: 1, H0457: 1, H0562: 1, H0566: 1, H0081: 1, L0471: 1, H0373: 1, H0083: 1, S6028: 1, H0266: 1, H0271: 1, S0250: 1, H0428: 1, H0617: 1, H0124: 1, H0708: 1, S0366: 1, H0135: 1, H0087: 1, H0551: 1, H0264: 1, H0488: 1, H0623: 1, T0041: 1, H0429: 1, H0561: 1, H0132: 1, H0130: 1, L0796: 1, L0639: 1, L0667: 1, L0764: 1, L0765: 1, L0768: 1, L0651: 1, L0805: 1,					

					L0776: 1, L0636: 1, L0809: 1, L0791: 1, L4501: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0693: 1, H0520: 1, H0519: 1, H0690: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, H0521: 1, H0134: 1, H0436: 1, L0612: 1, S0037: 1, L0742: 1, L0743: 1, L0744: 1, L0748: 1, L0439: 1, L0777: 1, L0780: 1, L0757: 1, L0759: 1, S0031: 1, S0434: 1 and S0192: 1.
					Ser-9 to Glu-18, Asp-22 to Asp-30.	2533	L0748: 20, L0731: 10, L0776: 7, L0766: 6, L0754: 6, L0747: 6, L0752: 6, L0740: 5, L0755: 5, L0759: 5, H0550: 4, L0769: 4, L0438: 4, H0545: 3, H0051: 3, H0135: 3, L0662: 3, L0809: 3, L0666: 3, H0624: 2, H0685: 2, L0005: 2, H0645: 2, H0013: 2, S0346: 2, H0318: 2,
						41 - 172	
						358	
						1006215	
						HOOJT92	

		H0597: 2, H0050: 2, H0014: 2, H0553: 2, H0040: 2, H0616: 2, H0551: 2, S0344: 2, S0002: 2, L0761: 2, L0771: 2, L0650: 2, L0806: 2, L0659: 2, H0547: 2, H0539: 2, H0696: 2, L0439: 2, L0749: 2, L0756: 2, L0605: 2, L0591: 2, L0581: 2, L0362: 2, H0171: 1, H0556: 1, S0134: 1, S0218: 1, H0583: 1, L0427: 1, S0358: 1, H0580: 1, H0208: 1, H0619: 1, S0278: 1, H0369: 1, H0549: 1, H0431: 1, H0370: 1, H0333: 1, H0427: 1, H0599: 1, T0082: 1, H0421: 1, H0052: 1, H0457: 1, L0157: 1, H0024: 1, H0687: 1, H0290: 1, H0252: 1, T0006: 1, H0644: 1, L0143: 1, H0111: 1, H0165: 1, H0674: 1, H0591: 1, H0634: 1, H0488: 1,				

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HNORE03	1006250	359	1 - 669	2534	Lys-54 to Asp-62, Pro-102 to Gly-109, Gln-121 to Thr-134, Lys-159 to Leu-165, Thr-190 to Asn-196.	L0770: 2, L0662: 2, L4501: 2, H0521: 2, L0731: 2, L0758: 2, H0351: 1, S0222: 1, H0587: 1, H0687: 1, H0169: 1, H0412: 1, L0805: 1, L0666: 1, H0723: 1, H0691: 1, H0520: 1, H0659: 1,		

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HPCTS21	1006317	360	117 - 1754	2535		Arg-8 to Ser-35, Leu-40 to Cys-77.	L0766: 6, L0754: 6, L0779: 4, H0486: 3, L0665: 3, S0440: 2, L0756: 2, L0731: 2, L0758: 2, H0624: 1, H0717: 1, H0738: 1, H0125: 1, S0376: 1, S0360: 1, H0581: 1, L0157: 1, L0471: 1, S0250: 1, S0003: 1, H0316: 1, S0422: 1, L0769: 1, L0387: 1, L0803: 1, L0805: 1, L0776: 1, L0606: 1, L0659: 1, L0518: 1, L0793: 1, L0664: 1, H0689: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, S0136: 1, H0134: 1, H0436: 1, H0732: 1, L0751: 1, L0777: 1, L0755: 1, L0759: 1, S0436: 1, H0422: 1 and S0412: 1.		
HFATL31	1006399	361	2 - 508	2536		Leu-17 to Arg-37, Pro-50 to Ser-77,	H0052: 2, H0620: 2, H0729: 1, S0300: 1,		

					Arg-85 to Gln-91, Glu-148 to Glu-153.	H0462: 1, H0550: 1, H0441: 1, H0333: 1, H0618: 1, S0010: 1, H0309: 1, H0032: 1, H0673: 1, H0124: 1, S0366: 1, S0036: 1, L0637: 1, S3014: 1, L0742: 1, L0743: 1, L0740: 1, L0750: 1, L0753: 1 and L0758: 1.		
HE2JE77	1006445	362	2 - 331	2537	Gly-67 to Leu-76, Cys-83 to Arg-89, Glu-96 to Asn-102.	L0521: 2, H0624: 1, H0539: 1 and H0555: 1.		
HCBNX87	1006470	363	948 - 529	2538.	Gly-16 to Asn-31, Ala-36 to Ser-41, Glu-93 to Pro-100, Lys-135 to Gln-140.	H0693: 44, L0604: 5, S0366: 4, L0805: 4, H0637: 3, L0766: 3, H0672: 3, H0549: 2, H0271: 2, L0777: 2, H0661: 1, H0580: 1, H0173: 1, H0620: 1, H0428: 1, S0364: 1, L0641: 1, L0644: 1, L0655: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, T0068: 1, H0576: 1, L0780: 1, L0731: 1, L0584: 1 and H0543: 1.		
HNTDJ68	1006483	364	3 - 653	2539	Val-9 to Ser-15, Phe-34 to Tyr-41,	AR052: 6, AR053: 5, AR055: 3, AR089: 3,		

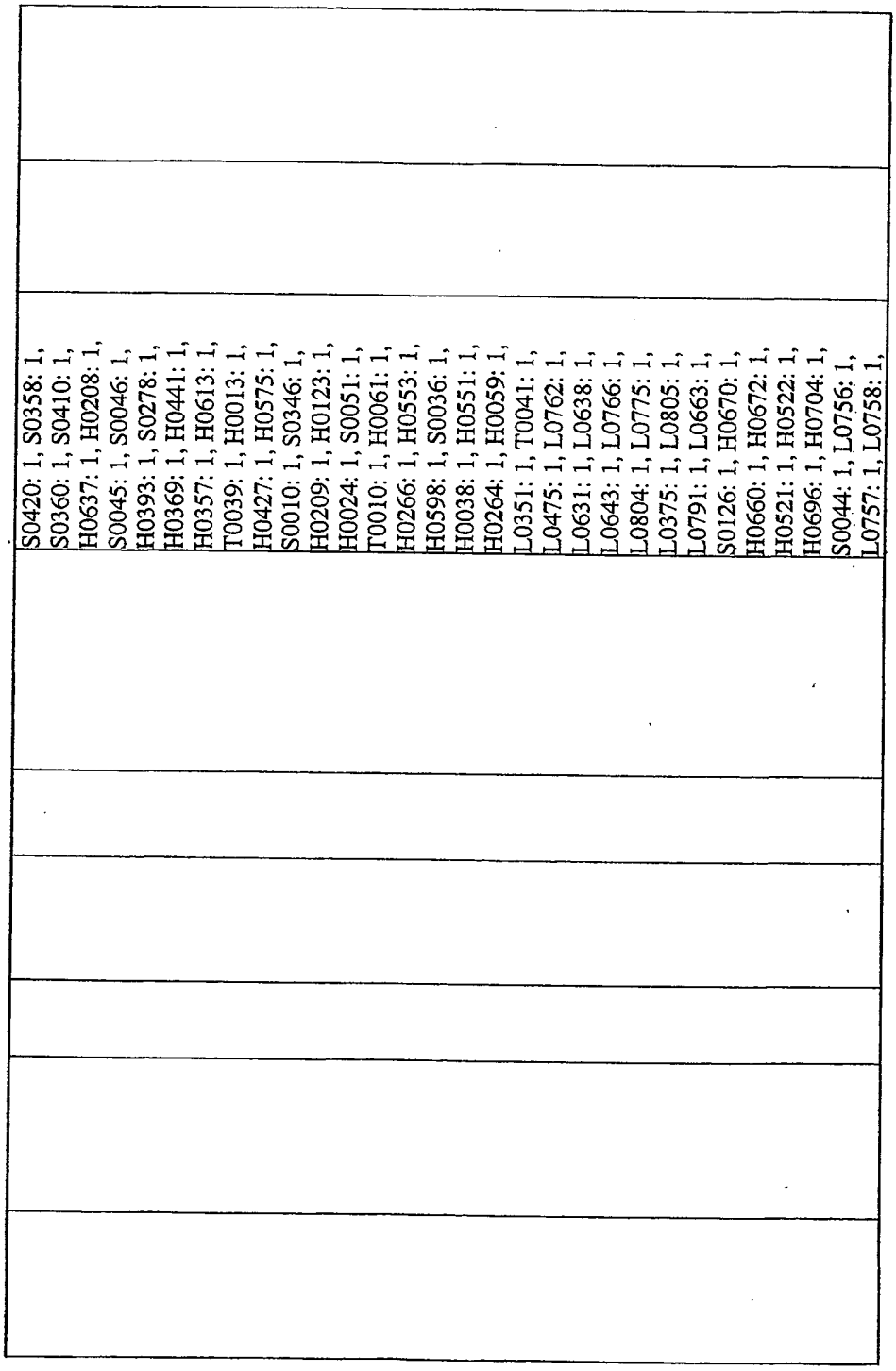
					Glu-59 to Glu-75, Leu-94 to Asn-99, Asp-142 to Cys-152, Lys-166 to Leu-172, Lys-188 to Asn-194, Pro-212 to Ala-217.	AR033: 3, AR096: 3, AR061: 2, AR039: 2, AR060: 2, AR104: 2 H0615: 3, H0393: 1, H0441: 1, T0109: 1, H0318: 1, H0570: 1, H0566: 1, H0551: 1, H0625: 1, L0761: 1, L0766: 1, L0803: 1, L0784: 1, H0144: 1, H0539: 1, H0696: 1, L0744: 1, L0740: 1 and L0777: 1.		
HTRAA05	1006512	365	19 - 327	2540	Pro-11 to Phe-16, Ala-59 to Asp-66.	T0002: 1, H0164: 1 and L0761: 1.		
HMTAL96	1006635	366	1767 - 1321	2541	Ala-9 to Leu-20, Arg-70 to Thr-75, Pro-129 to Gly-139.	L0747: 6, L0754: 4, L0752: 4, S0280: 3, H0615: 3, L0766: 3, L0803: 3, L0805: 3, L0809: 3, L0740: 3, L0750: 3, L0731: 3, H0050: 2, L0471: 2, H0628: 2, H0032: 2, S0426: 2, H0648: 2, S0027: 2, L0779: 2, L0757: 2, L0759: 2, L0485: 2, H0656: 1, S0029: 1, S0356: 1, S0358: 1, S0376: 1, S0408: 1, H0580: 1,		

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						Ile-3 to Ile-10, Pro-40 to Val-64.	H0615: 2 and H0486: 1.
HDTJP21	1006858	367	55 - 246	2542			

HISEQ81	1006943	368	298 - 2	2543	Glu-8 to Tyr-18, Asn-29 to Lys-35, Lys-62 to Ile-67, His-88 to Pro-99.	H0539: 2		
HODFH02	1006953	369	334 - 393	2544		H0615: 3		
HOCPP18	1007230	370	290 - 571	2545	Pro-11 to Phe-19, Phe-41 to Ser-54.	L0748: 3, L0471: 2, L0766: 2, L0752: 2, S0358: 1, H0357: 1, H0486: 1, H0270: 1, H0575: 1, S0182: 1, S0049: 1, T0067: 1, H0412: 1, H0560: 1, S0144: 1, S0326: 1, H0538: 1, S0422: 1, S0426: 1, L0764: 1, H0660: 1, H0521: 1, S0432: 1, L0740: 1, L0751: 1, L0754: 1, L0745: 1, L0747: 1, L0777: 1, L0731: 1, H0445: 1, L0608: 1 and H0667: 1.	14q21	182600, 232700, 602086, 602616
HODFP91	1007941	371	3 - 1016	2546	Glu-10 to Ser-19, His-41 to Lys-50, Glu-80 to Leu-86, Ser-142 to Leu-147, Lys-153 to Lys-161, Tyr-167 to Leu-175, Ser-177 to Asn-188, Gln-199 to Arg-228,	L0777: 4, L0517: 3, L0740: 3, L0599: 3, S0354: 2, H0615: 2, L0521: 2, L0663: 2, L0779: 2, L0591: 2, T0002: 1, H0013: 1, H0427: 1, H0553: 1, H0038: 1, L0520: 1,		

					Gln-257 to Glu-262, Asp-274 to Ser-279.	L0769: 1, L0638: 1, L0518: 1, L0809: 1, H0547: 1, L0439: 1, L0747: 1 and H0444: 1.		
H6EDU06	1007976	372	18 - 449	2547	Pro-6 to Leu-11, Glu-90 to Asn-95, Val-102 to Val-107, Ala-120 to Glu-126, Ala-132 to Thr-144.	H0686: 1, H0559: 1 and S0028: 1.		
HPCRD26	1008013	373	81 - 1334	2548	Gly-8 to Asp-16, Gly-71 to Pro-77, Met-98 to Tyr-105, Lys-129 to Arg-146, Gln-177 to Val-186, Gln-192 to Trp-216, Pro-223 to Asp-237, Ala-251 to Ser-258, Arg-287 to Arg-292, Met-323 to Gly-331.	AR053: 1, AR104: 1, AR061: 1, AR033: 1, AR060: 0, AR096: 0, AR039: 0, AR089: 0, AR052: 0, AR055: 0		
HSIEH63	1008027	374	3 - 554	2549	His-1 to Pro-7, Lys-43 to Asp-59, Thr-122 to Tyr-133, Gly-152 to Thr-160.	AR039: 9, AR089: 4, AR060: 4, AR055: 4, AR061: 3, AR033: 3, AR104: 3, AR053: 3, AR096: 1 S0354: 2, S0360: 1, H0036: 1, H0596: 1 and S0374: 1.		
HPASD51	1008071	375	3 - 752	2550	Glu-26 to Gly-31, Gly-33 to Trp-40, Ala-169 to Glu-175,	AR052: 51, AR061: 46, AR033: 35, AR053: 28, AR104: 26, AR055:		

					Gly-199 to Gly-204.	25, AR096: 25, AR060: 24, AR089: 23, AR039: 21 S0380: 5, L0748: 4, H0648: 3, S0378: 3, L0752: 3, L0766: 2, L0803: 2, L0665: 2, L0750: 2, H0661: 1, H0461: 1, H0270: 1, H0039: 1, H0622: 1, L0761: 1, L0657: 1, L0532: 1, L0666: 1, H0689: 1, S0330: 1, L0749: 1 and L0777: 1;		
HCOQH27	1008154	376	95 - 1315	2551	Gly-28 to Pro-34, Lys-39 to Glu-47, Ala-63 to Cys-68, Asn-101 to Gly-111, Leu-144 to His-161, Asp-234 to Trp-245, Phe-396 to Ser-407.	L0803: 5, L0439: 5, L0750: 5, L0774: 4, H0657: 3, H0046: 3, H0687: 3, H0031: 3, L0773: 3, L0794: 3, L0776: 3, L0655: 3, L0657: 3, L0790: 3, L0438: 3, L0747: 3, L0731: 3, H0656: 2, T0042: 2, L0761: 2, L0764: 2, L0654: 2, S0152: 2, L0751: 2, L0749: 2, L0777: 2, L0759: 2, L0592: 2, H0543: 2, S6024: 1, H0341: 1, S0212: 1,	12	


S0420: 1, S0358: 1,
S0360: 1, S0410: 1,
H0637: 1, H0208: 1,
S0045: 1, S0046: 1,
H0393: 1, S0278: 1,
H0369: 1, H0441: 1,
H0357: 1, H0613: 1,
T0039: 1, H0013: 1,
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S0044: 1, L0756: 1,
L0757: 1, L0758: 1,

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HNTBU30	1008177	377	2 - 2737	2552	Leu-40 to Val-46, Gly-83 to Gln-89, Lys-123 to Gly-129.	L0770: 7, L0777: 7, S0406: 5, L0439: 5, L0758: 4, H0659: 3, H0717: 2, H0494: 2, L0598: 2, L0764: 2, L0655: 2, H0547: 2, H0521: 2, H0478: 2, L0748: 2, L0731: 2, L0595: 2, L0411: 1, H0657: 1, H0656: 1, H0663: 1, S0358: 1, H0329: 1, H0645: 1, H0639: 1, H0415: 1, H0455: 1, H0156: 1, L0021: 1, H0052: 1, T0110: 1, L0471: 1, H0687: 1, S0250: 1, H0428: 1, H0553: 1, H0166: 1, H0598: 1, H0040: 1, H0551: 1, S0386: 1, H0560: 1, H0509: 1, H0538: 1, UNKWN: 1, L0763: 1, L0638: 1, L0646: 1, L0662: 1, L0364: 1, L0803: 1, L0659: 1,		

HCOPZ14	1008179	378	763 - 1083	2553	L0636: 1, L0783: 1, L0666: 1, H0520: 1, H0519: 1, S0122: 1, H0435: 1, H0518: 1, H0694: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, S0031: 1, L0485: 1, H0422: 1 and H0506: 1.	H0556: 3, S0474: 2, H0622: 2, H0634: 2, S0434: 2, H0265: 1, H0254: 1, H0663: 1, S0046: 1, H0602: 1, H0586: 1, H0069: 1, H0575: 1, H0581: 1, H0251: 1, S0051: 1, H0617: 1, H0494: 1, H0670: 1, S0152: 1, L0748: 1 and L0603: 1.	1q32-q41	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 276901, 600105, 600332, 600759, 601494,

								601744, 601975
HODEC78	1008299	379	1 - 1209	2554	Arg-1 to Cys-8, Ala-11 to Thr-22, Pro-87 to Leu-99, Lys-120 to Glu-144, Leu-179 to Lys-200, Glu-212 to Lys-221, Tyr-280 to Arg-287, Lys-292 to Gly-299, Val-314 to Ser-320, Pro-322 to Pro-340.	H0615: 2, L0766: 2, L0755: 2, L0471: 1, H0356: 1, T0023: 1, L0761: 1, L0794: 1, L0787: 1, L0789: 1, H0519: 1, L0745: 1, L0746: 1, L0591: 1 and L0593: 1.	12p11.2-p11.1	112410, 135700, 168470, 200990
HODEF29	1008304	380	26 - 169	2555	His-8 to Gly-18.	H0615: 1		
HODFB71	1008307	381	369 - 671	2556	Lys-54 to Arg-59, Arg-66 to Arg-71.	L0805: 2, S0134: 1, H0486: 1, H0251: 1, H0235: 1, S0022: 1, H0615: 1, L0667: 1, L0776: 1, L0789: 1, L0758: 1 and H0423: 1.		
HODEF78	1008314	382	3 - 218	2557	Thr-4 to Ser-11, Pro-25 to Ala-31, Thr-38 to His-44.	H0615: 1		
HODEL83	1008324	383	3 - 416	2558	Ser-2 to Thr-13, Ile-16 to Ser-26, Pro-28 to Gln-36, Gln-41 to Pro-47, Pro-106 to Asp-111, Trp-127 to Thr-132.	H0615: 3		
HHPSH76	1008325	384	244 - 1206	2559	Ser-2 to Ser-7, Leu-51 to Arg-56,	L0776: 9, L0769: 4, L0789: 4, L0773: 3,		

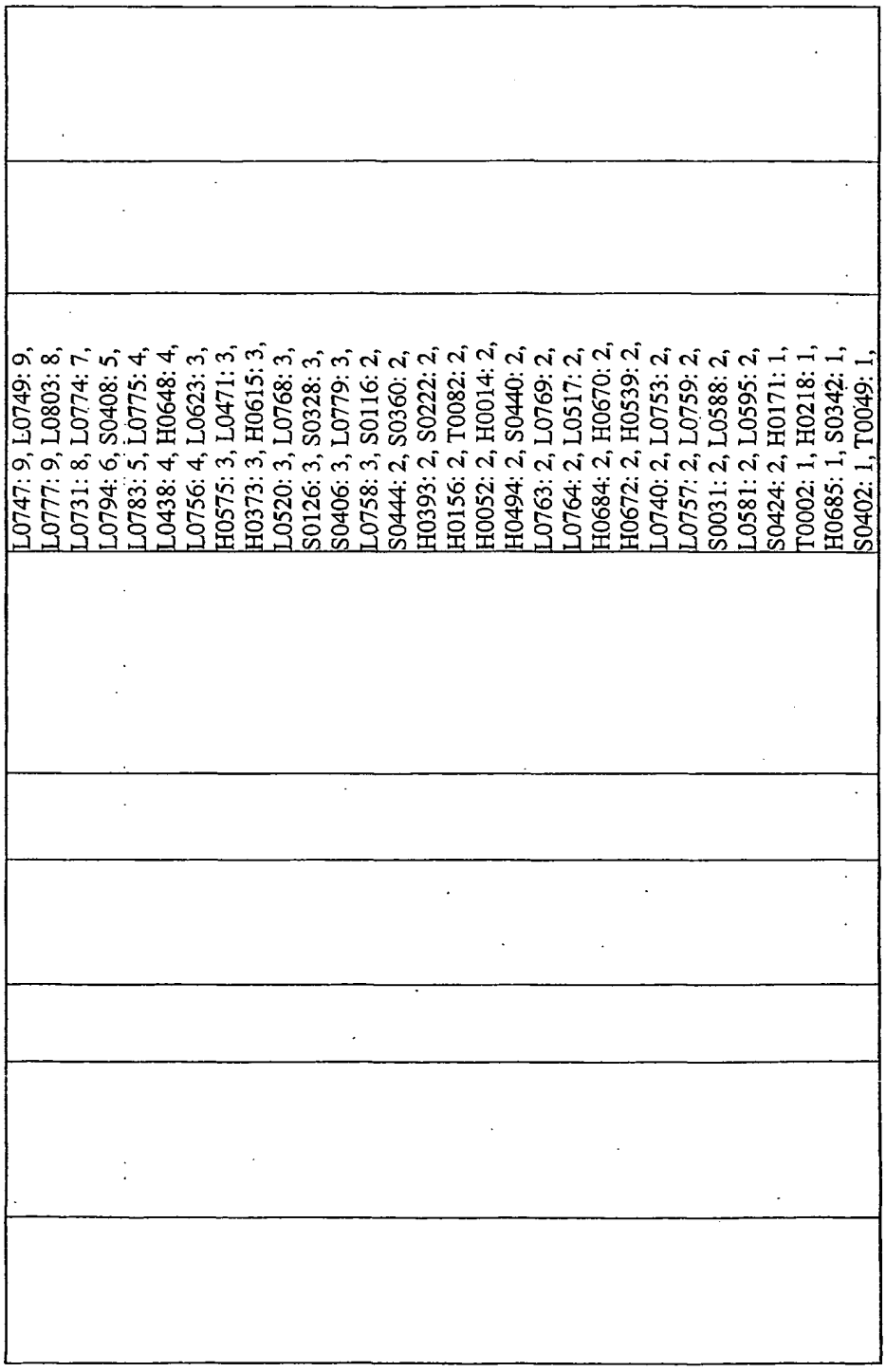
					Lys-142 to Ser-149, His-178 to Ser-187, Tyr-261 to Gly-267, Arg-272 to Asp-292.	L0774: 3, L0750: 3, L0761: 2, L0771: 2, L0803: 2, L0807: 2, L0565: 2, L0745: 2, S0376: 1, H0549: 1, H0453: 1, H0587: 1, S0010: 1, S0324: 1, H0201: 1, H0687: 1, H0428: 1, H0538: 1, L0763: 1, L0770: 1, L0800: 1, L0643: 1, L0764: 1, L0794: 1, L0766: 1, L0775: 1, L0806: 1, S0328: 1, H0521: 1, L0780: 1, L0758: 1, L0759: 1, L0605: 1 and S0462: 1.		
HBGBE52	1008326	385	782 - 663	2560	Gly-1 to Glu-26, Val-28 to Leu-35.	H0181: 2, L0599: 2, H0014: 1, L0365: 1, L0665: 1, S0052: 1, S0216: 1, H0684: 1, S0152: 1, S0188: 1, H0345: 1 and L0366: 1.			
HBQAB30	1008327	386	3 - 737	2561	Asn-40 to Arg-68, Ser-86 to Ala-92, Ile-129 to Lys-145, Glu-162 to Ala-175, Glu-181 to Thr-204, Ser-206 to Lys-214, Leu-222 to Thr-231.	H0551: 2, S0354: 1, H0229: 1, S0049: 1, H0135: 1, H0529: 1 and S0028: 1.			

HLHCB31	1008332	387	1 - 558	2562	Asn-7 to Lys-19.	L0750: 4, L0777: 3, L0758: 3, S0354: 2, S0360: 2, H0039: 2, H0622: 2, H0617: 2, L0666: 2, H0520: 2, L0756: 2, L0759: 2, S0358: 1, H0549: 1, H0253: 1, H0009: 1, L0471: 1, H0620: 1, H0024: 1, H0083: 1, H0688: 1, L0142: 1, H0135: 1, H0038: 1, H0100: 1, H0646: 1, L0763: 1, L0761: 1, L0764: 1, L0662: 1, L0767: 1, L0794: 1, L0653: 1, L0659: 1, L0809: 1, L0665: 1, H0144: 1, H0547: 1, H0672: 1, L0741: 1, L0743: 1, L0744: 1, L0753: 1 and S0276: 1.	16q13-16q21	114835, 118470, 132700, 172490, 209900, 600968
HPFDV51	1008335	388	22 - 216	2563	Thr-5 to His-10, Pro-28 to Thr-40, Lys-46 to His-54.	H0670: 4, S0007: 2, H0014: 2, H0616: 2, L0005: 1, H0574: 1, H0632: 1, H0156: 1, H0169: 1, L0769: 1, L0805: 1, L0647: 1, H0648: 1, L0779: 1 and L0758: 1.		

HTEDY04	1008336	389	2 - 832	2564	Arg-2 to Gly-9, Arg-38 to Lys-46, Ser-53 to Ser-73, Asp-79 to Ala-84, Leu-129 to Glu-136, Glu-202 to Arg-210, Glu-216 to Ala-231, Glu-234 to Glu-254, Lys-259 to Leu-265.	L0803: 8, L0758: 8, L0809: 6, L0748: 6, H0038: 5, L0439: 5, H0616: 4, H0670: 4, L0756: 4, L0731: 4, L0794: 3, L0750: 3, L0770: 2, L0805: 2, L0776: 2, L0602: 2, L0779: 2, S0276: 2, S0282: 1, S0410: 1, H0369: 1, H0549: 1, H0618: 1, H0252: 1, H0615: 1, H0424: 1, H0213: 1, H0032: 1, H0212: 1, H0068: 1, T0067: 1, S0438: 1, L0769: 1, L0638: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0782: 1, L0788: 1, L0789: 1, L0666: 1, L0664: 1, L0665: 1, H0658: 1, H0672: 1, S3012: 1, L0751: 1, L0745: 1, L0777: 1, L0780: 1, L0759: 1 and L0581: 1.	1p35.1	118210, 120550, 120570, 120575, 121800, 130500, 133200, 171760, 171760, 185470, 230350, 255800, 602771
HODEG13	1008337	390	2 - 166	2565	Gln-2 to His-10, Lys-21 to Glu-33.	H0615: 3		
HHPFK16	1008345	391	109 - 435	2566		H0663: 1, H0125: 1,		

						S0418: 1, S0356: 1, H0051: 1, H0648: 1 and H0543: 1.		
HARAL81	1008349	392	220 - 20	2567	Ser-24 to Ala-30, Arg-55 to Ser-62.	L0752: 6, L0663: 5, L0646: 3, L0754: 3, L0747: 3, H0031: 2, L0794: 2, H0659: 2, H0658: 2, L0748: 2, H0556: 1, H0657: 1, L0005: 1, S0354: 1, S0358: 1, S0410: 1, H0637: 1, H0441: 1, H0455: 1, T0082: 1, H0615: 1, S0440: 1, H0633: 1, S0344: 1, S0426: 1, H0529: 1, L0770: 1, L0769: 1, L0637: 1, L0374: 1, L0771: 1, L0648: 1, L0662: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0805: 1, L0776: 1, L0655: 1, L0542: 1, L0782: 1, L0809: 1, L0666: 1, L0664: 1, L0665: 1, L0352: 1, H0648: 1, H0521: 1, H0696: 1, S0406: 1, L0740: 1, L0749: 1, L0731: 1 and		

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HFTAU42	1008350	393	987 - 1100	2568		S0360: 2, H0123: 2, L0649: 2, L0803: 2, L0666: 2, L0740: 2, L0747: 2, L0750: 2, L0755: 2, H0624: 1, S0418: 1, H0393: 1, H0553: 1, H0124: 1, H0090: 1, S0440: 1, H0646: 1, S0142: 1, L0662: 1, L0776: 1, L0659: 1, L0665: 1, L0438: 1, H0547: 1, H0519: 1, H0659: 1, H0658: 1, H0648: 1, L0777: 1, L0752: 1, H0445: 1, L0599: 1, S0242: 1 and H0542: 1.		
HETDA81	1008358	394	3 - 377	2569	Thr-5 to Ser-12, Thr-74 to Pro-80.	H0046: 2 and H0648: 1.		
HODEI92	1008359	395	1 - 495	2570	His-31 to Asp-45, Glu-56 to Ser-64, Pro-118 to Asp-131.	L0747: 4, L0751: 3, H0615: 2, L0794: 2, L0665: 2, H0659: 2, L0777: 2, L0596: 2, H0341: 1, H0333: 1, H0510: 1, H0328: 1, H0039: 1, L0764: 1, L0657: 1, H0658: 1, S0328: 1 and L0758: 1.		
HODEB58	1008372	396	3 - 455	2571	Thr-25 to Ser-36.	H0360: 14, L0809: 11,		


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L0777: 9, L0803: 8,
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L0794: 6, S0408: 5,
L0783: 5, L0775: 4,
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HODEG86	1008379	397	411 - 548	2572		H0615: 3		
HODFA57	1008396	398	138 - 221	2573	Lys-1 to Lys-6, Leu-10 to Asp-17, Pro-19 to Arg-28.	H0615: 4		
HODFB31	1008401	399	1 - 276	2574	Pro-35 to Lys-40, Glu-72 to Gly-77, Pro-85 to Val-90.	H0615: 2, S0278: 1, S0002: 1, H0555: 1 and S0026: 1.		
HTEMP79	1008406	400	317 - 658	2575	Leu-14 to Ser-19.	L0758: 6, L0779: 4, H0038: 3, H0616: 2, L0593: 2, H0644: 1, L0794: 1 and L0594: 1.		
HODEI59	1008423	401	161 - 1291	2576	His-6 to Ser-11, Ser-122 to Asn-128, Leu-216 to Asp-221, Ser-323 to His-328.	H0031: 12, H0521: 11, H0542: 11, L0745: 9, H0266: 7, H0547: 7, H0551: 6, H0013: 5, S0152: 5, T0049: 4, H0169: 4, H0494: 4,	20q12-q13.1	256540, 600281, 600281

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HODEF94	1008429	402	2 - 94	2577	Pro-19 to Ser-29.	H0615: 2, H0090: 1, S0002: 1 and H0478: 1.		
HPFCZ53	1008445	403	236 - 769	2578	Lys-1 to Lys-23.	L0754: 40, L0740: 8, H0295: 2, H0663: 2, H0169: 2, H0068: 2, L0770: 2, L0662: 2, L0789: 2, L0748: 2, L0751: 2, L0755: 2, L0589: 2, S0420: 1, L0005: 1, H0586: 1, H0156: 1, H0032: 1, H0100: 1, H0494: 1, L0803: 1, L0806: 1, L0809: 1, H0660: 1, H0672: 1, S0152: 1, L0744: 1, L0779: 1, L0777: 1, L0780: 1, L0591: 1, L0593: 1 and L0601: 1.	6p24	134570
HWACN71	1008764	404	96 - 1268	2579	Val-7 to Gly-14, Lys-46 to Ala-52, Leu-82 to Phe-89, Lys-94 to Ser-99, Pro-101 to Arg-108,	AR096: 7, AR053: 5, AR089: 4, AR039: 3, AR060: 2, AR055: 2, AR052: 2, AR033: 2, AR061: 2, AR104: 2		

					Ala-123 to Gly-129, Lys-154 to Gly-164, Arg-274 to Glu-287, Asp-294 to Thr-309, Gln-324 to Ala-334, Pro-343 to Asn-359, Lys-368 to Glu-385.	H0457: 2, H0494: 2, H0740: 1, H0581: 1, H0083: 1, L0770: 1, L0769: 1, L0764: 1, L0791: 1 and H0727: 1.		
HOFMU69	1009017	405	342 - 1151	2580	Ser-70 to Trp-88, Lys-154 to Asp-161, Tyr-265 to Lys-270.	AR039: 17, AR052: 11, AR104: 7, AR033: 7, AR096: 7, AR053: 6, AR089: 6, AR060: 3, AR061: 3, AR055: 3 H0415: 2		
HSKNP59	1009095	406	417 - 554	2581	Pro-10 to Pro-16.	AR039: 15, AR089: 10, AR053: 10, AR096: 9, AR055: 8, AR060: 7, AR033: 6, AR061: 5, AR104: 4 L0510: 3, L0504: 1, L0502: 1, L0499: 1, L0514: 1, L0512: 1 and S3012: 1.		
HETBR71	1009343	407	155 - 658	2582	Lys-5 to Phe-58.	L0731: 10, L0759: 6, L0782: 4, L0774: 3, H0046: 2, H0620: 2, L0598: 2, L0769: 2, L0805: 2, L0663: 2, S0380: 2, L0754: 2, L0756: 2, H0170: 1,	Xq22.1	301201, 301835, 311850

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HE2ES17	1009349	408	3 - 914	2583	Glu-1 to Glu-13.	L0663: 3, L0740: 3, L0752: 3, L0758: 3, L0759: 3, L0664: 2, L0665: 2, L0439: 2, L0756: 2, H0624: 1, H0170: 1, H0685: 1, S0003: 1, H0615: 1, H0644: 1, H0616: 1,		

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HELHM06	1009362	409	14 - 349	2584	Asp-57 to Ala-62, Gly-98 to Pro-112.	S0045: 1		
HE2AG50	1009365	410	43 - 132	2585	Gly-1 to Ser-6, Pro-20 to Ile-30.	AR089: 1, AR033: 1, AR060: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0 H0170: 1, H0574: 1, H0052: 1, H0048: 1 and L0766: 1.		
HE2ES61	1009388	411	555 - 427	2586		H0305: 2, L0663: 2, H0170: 1, S0003: 1, L0803: 1 and H0651: 1.		
HE2SO43	1009398	412	1 - 408	2587	Pro-65 to Lys-70, His-112 to Gly-131.	H0624: 1		
HLHCI07	1009403	413	91 - 2	2588	Arg-5 to Gly-11.	H0208: 1, H0123: 1 and H0024: 1.	13q	
HTTBR65	1009414	414	1 - 357	2589	Gly-3 to Thr-9, Arg-30 to Gly-39.	H0305: 1 and H0040: 1.	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200,

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HPFCV71	1009453	415	434 - 586	2590					
HCABR46	1009479	416	169 - 423	2591	Ala-9 to Glu-19, Glu-40 to Asn-46, Asp-55 to Ser-66.		H0125: 1	19p13.2	108725, 120700, 133171, 143890, 147670,

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HCRCB80	1009482	417	78 - 479	2592	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	H0170: 1, H0327: 1, H0038: 1, L0758: 1 and S0276: 1.	22q13.2-q13.31	188826, 250100, 250800, 250800
HPMLW78	1009833	418	1 - 648	2593	Asn-12 to Tyr-19, Glu-33 to Glu-38, Arg-53 to Ser-62.	L0769: 4, L0751: 4, L0471: 2, H0024: 2, L0768: 2, L0748: 2, L0731: 2, L0595: 2, H0685: 1, S0001: 1, H0052: 1, H0050: 1, H0012: 1, H0644: 1, H0617: 1, H0040: 1, H0100: 1, L0637: 1, L0662: 1, L0809: 1, L0665: 1, H0547: 1, H0519: 1, L0780: 1 and L0591: 1.	1q23	104770, 107300, 107670, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 173610, 176310, 186780, 191030, 227400, 227400, 601412,

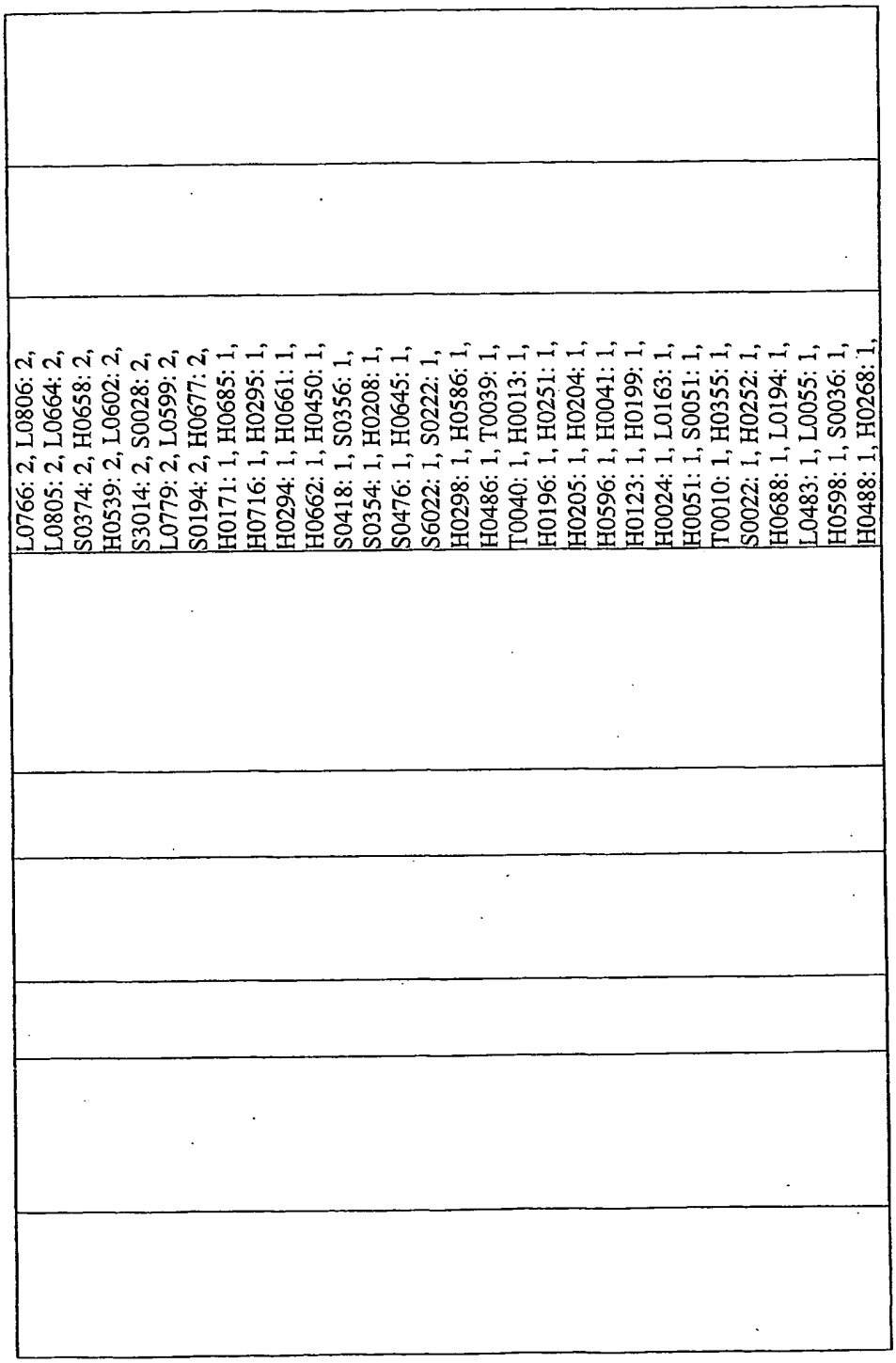
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HODJV85	1009857	421	366 - 166	2596	Asp-1 to Gly-9, Glu-17 to Lys-23.	H0615: 1		
HOOJO38	1009918	422	718 - 116	2597	Ala-76 to Lys-87, Glu-110 to Gln-115, Ser-123 to Lys-131, Lys-168 to Ala-174, Pro-178 to Ala-193, Ala-196 to Ala-201.	L0493: 55, L0504: 46, L0512: 42, L0510: 41, L0507: 39, L0509: 35, L0511: 30, L0502: 29, L0500: 25, L0499: 20, L0503: 19, L0498: 13, L0514: 13, H0648: 13, L0506: 10, H0341: 9, H0046: 7, L0505: 7, L0497: 7, H0670: 7, L0520: 6, H0659: 6, S0380: 6, L0508: 5, S0027: 5, S0114: 4, H0657: 4, S0045: 4, H0100: 4, L0515: 4, L0526: 4, L0664: 4, S0126: 4, H0658: 4, S0378: 4, S0028: 4, L0588: 4, L0362: 4, S0026: 4, H0333: 3, H0318: 3, H0090: 3, H0413: 3, S0142: 3, L0646: 3, S0374: 3, H0689: 3, L0750: 3,		

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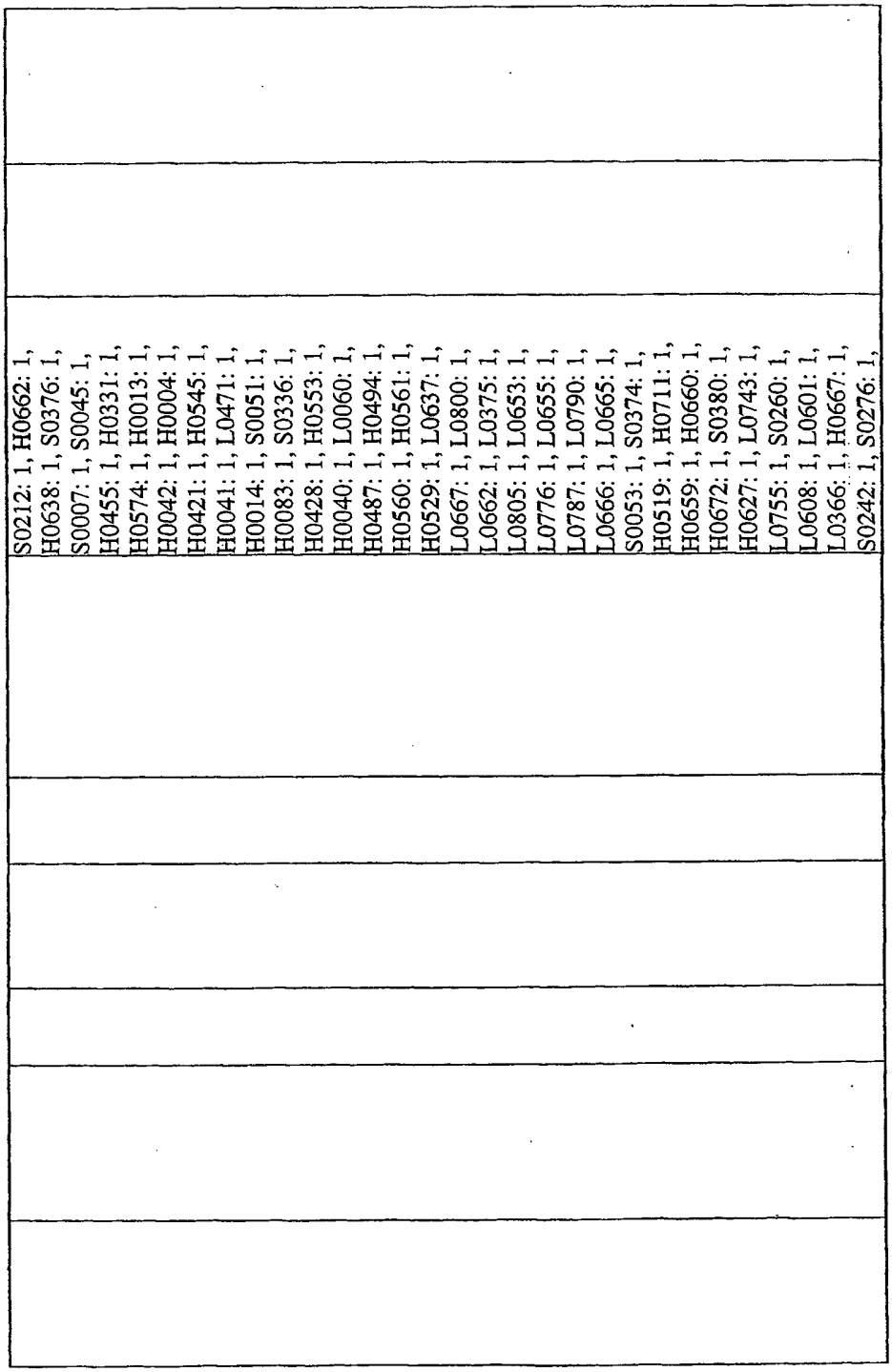
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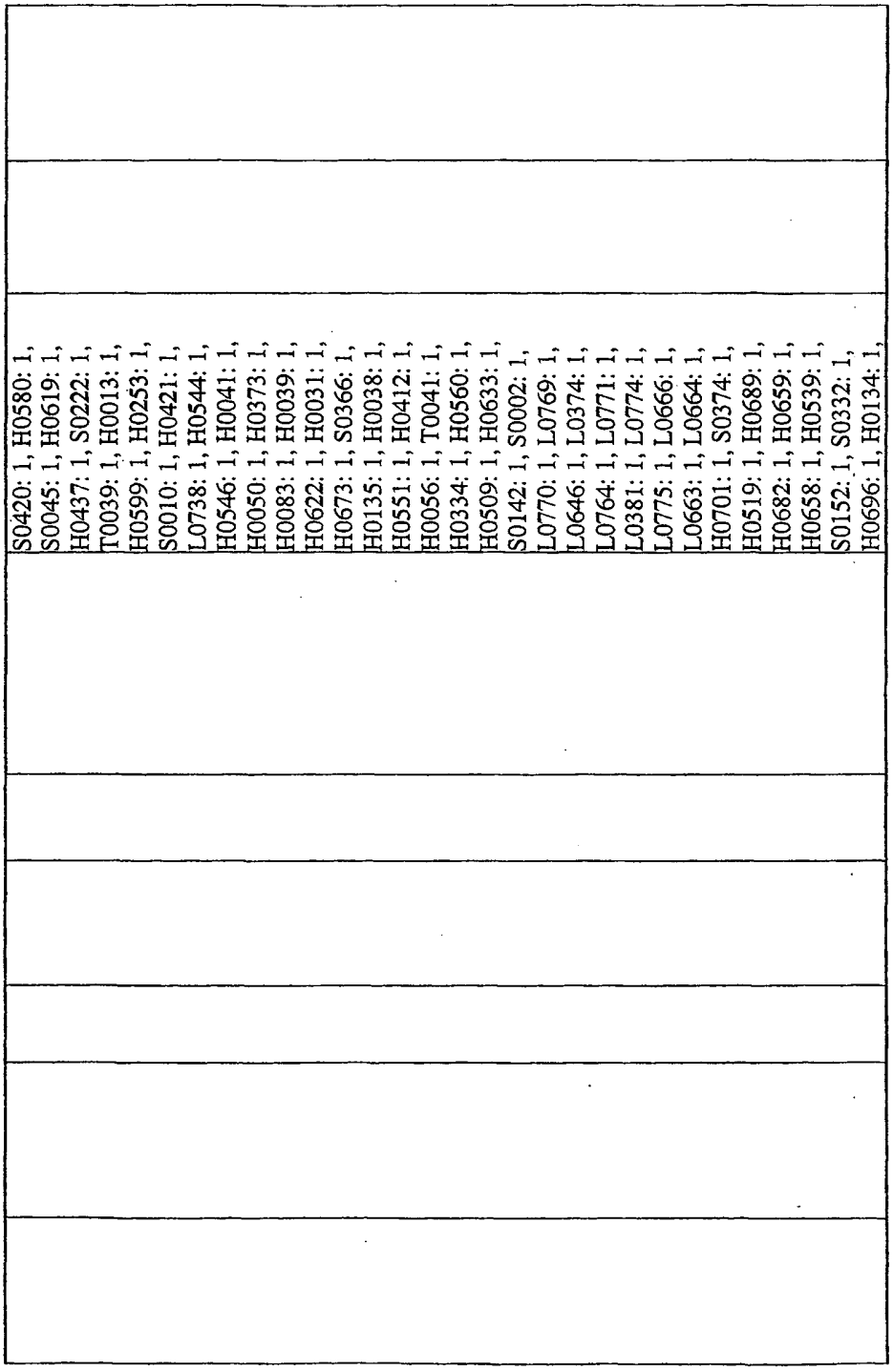

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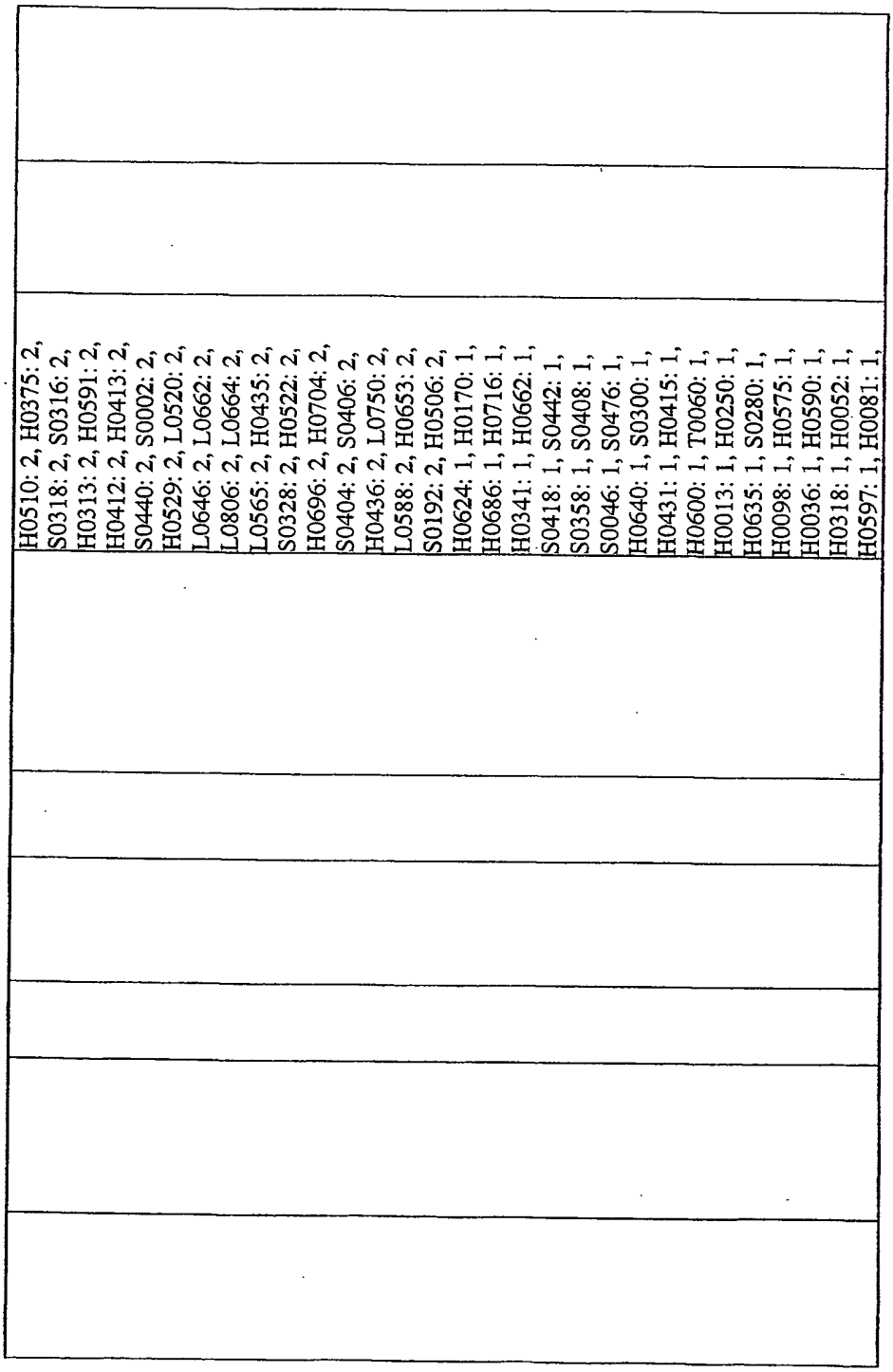
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HPDVK48	1011090	430	1085 - 1630	2605	Lys-14 to Ala-21, Ser-23 to Lys-31, Glu-38 to Gln-47, Arg-72 to Leu-78, Gln-87 to Asn-94, Ser-110 to Lys-118, Glu-172 to Lys-182.	H0650: 2, H0253: 2, L0769: 2, S0116: 1, H0333: 1, H0421: 1, H0083: 1, H0166: 1, H0616: 1, S0208: 1, L0645: 1, L0655: 1, L0666: 1, H0547: 1, H0593: 1, H0689: 1, H0658: 1, S0434: 1 and		

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HNORJ10	1011186	431	3 - 1628	2606	Asn-42 to Pro-48, Glu-81 to Lys-86, Val-94 to Thr-99, Lys-105 to Asp-111, Phe-129 to Glu-142, Ser-154 to Gln-160, Glu-173 to Ala-182, Gln-209 to Glu-234, Asp-259 to Asp-272, Ser-303 to Pro-311, Thr-321 to Asn-329, Ala-335 to Glu-349, Thr-371 to Gly-389, Gln-395 to Asn-405, Thr-415 to Asn-423, Asn-431 to Ser-443, Lys-475 to Gln-484, Ser-502 to Gly-507, Ile-522 to Asn-527.	S0003: 17, H0551: 11, L0483: 9, H0547: 9, S0212: 7, S0152: 7, H0521: 7, H0423: 7, L0766: 6, L0666: 6, S0214: 5, S0126: 5, H0543: 5, S0420: 4, S0360: 4, H0411: 4, H0032: 4, H0598: 4, S0422: 4, L0649: 4, L0665: 4, L0757: 4, H0657: 3, S0376: 3, L0717: 3, H0574: 3, H0486: 3, H0069: 3, H0427: 3, H0581: 3, H0046: 3, H0457: 3, H0271: 3, H0622: 3, H0494: 3, L0667: 3, L0655: 3, L0659: 3, H0519: 3, H0672: 3, H0710: 3, L0754: 3, L0759: 3, L0593: 3, L0601: 3, H0422: 3, H0218: 2, S0040: 2, H0713: 2, H0717: 2, H0650: 2, H0656: 2, S0356: 2, S0132: 2, S0222: 2, H0333: 2, H0009: 2, L0157: 2,	14q21-q24	107970, 115650, 182600, 232700, 602086, 602091, 602616


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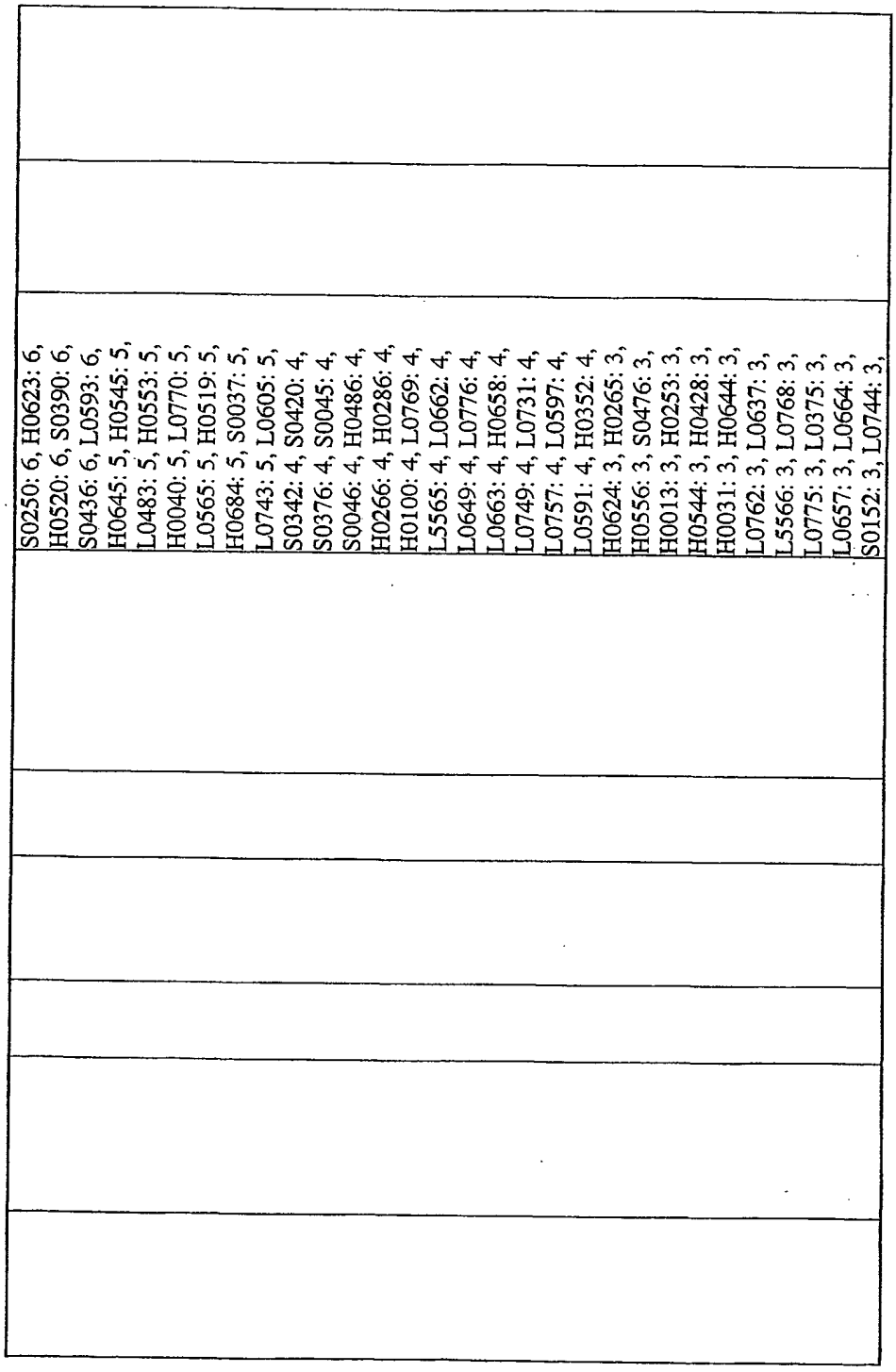
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HOFMQ81	1011303	433	2 - 544	2608	His-1 to Gly-12, Ser-27 to Ser-37, Pro-59 to Ser-68, Glu-94 to Ala-102, Ile-129 to Ser-143, Pro-145 to Pro-150.	AR033: 2, AR089: 2, AR039: 2, AR061: 2, AR055: 1, AR096: 1, AR060: 1, AR104: 1, AR053: 0 H0415: 2		
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HOFND52	1011316	435	126 - 542	2610	Pro-9 to Arg-15, Ala-17 to Thr-26, Pro-39 to Lys-45, Asp-54 to Ala-61, Leu-86 to Gly-91, Phe-99 to Thr-106.	AR096: 1, AR060: 1, AR061: 1, AR033: 1, AR089: 1, AR039: 1, AR053: 0, AR055: 0, AR104: 0 H0415: 2		

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HOFOF35	1011499	439	1 - 639	2614	Ser-13 to Glu-26, Ser-48 to Val-55, Lys-85 to Thr-91, Asp-115 to Asn-126, Asp-169 to Lys-175.	H0415: 2		
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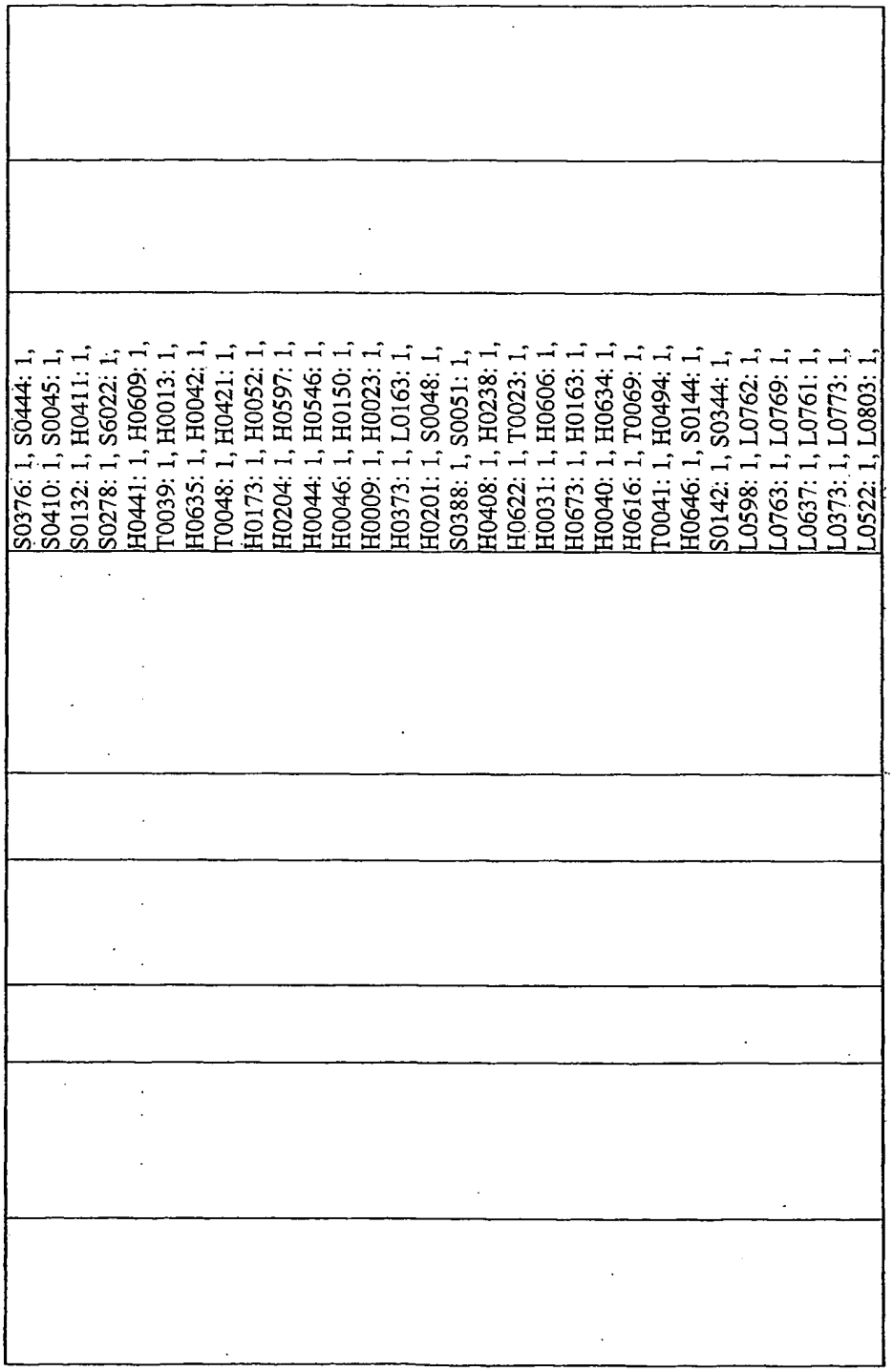

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HCBBA51	1011755	443	57 - 266	2618	Pro-11 to Phe-16, Thr-48 to Ser-60.	H0659: 16, L0747: 15, S0358: 14, L0005: 13, L0758: 9, S0360: 8, L0775: 8, H0648: 8, H0657: 6, L0731: 6, L0757: 6, H0341: 5, H0412: 5, S0440: 5, H0658: 5, H0710: 5, L0750: 5, L0588: 5, S0007: 4, S0046: 4, H0599: 4, L0520: 4, L0764: 4, L0768: 4, H0170: 3, H0306: 3, H0125: 3, S0408: 3,		

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H0441: 1, H0609: 1,
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H0635: 1, H0042: 1,
T0048: 1, H0421: 1,
H0173: 1, H0052: 1,
H0204: 1, H0597: 1,
H0044: 1, H0546: 1,
H0046: 1, H0150: 1,
H0009: 1, H0023: 1,
H0373: 1, L0163: 1,
H0201: 1, S0048: 1,
S0388: 1, S0051: 1,
H0408: 1, H0238: 1,
H0622: 1, T0023: 1,
H0031: 1, H0606: 1,
H0673: 1, H0163: 1,
H0040: 1, H0634: 1,
H0616: 1, T0069: 1,
T0041: 1, H0494: 1,
H0646: 1, S0144: 1,
S0142: 1, S0344: 1,
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L0763: 1, L0769: 1,
L0637: 1, L0761: 1,
L0373: 1, L0773: 1,
L0522: 1, L0803: 1,

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HDHEB13	1011773	444	31 - 972	2619	Gly-1 to Glu-11, Arg-54 to Ser-60, Pro-68 to Gly-78, Pro-92 to Gly-126, Ala-134 to Asn-143, Thr-145 to Gly-162, Gly-173 to Ser-179, Lys-187 to Leu-194, Glu-205 to Ser-213, Ser-283 to Phe-289, Ala-306 to Glu-313.	L0777: 4, L0747: 3, S0007: 1, H0351: 1, H0550: 1, H0013: 1, H0570: 1, H0123: 1, H0019: 1, H0012: 1, H0553: 1, L0794: 1, L0759: 1 and H0352: 1.		
HDTMG36	1011821	445	3 - 248	2620	Pro-28 to Gln-35, Leu-71 to Pro-77.			
HVVCJ38	1011830	446	2 - 817	2621	Thr-121 to Asn-126, Ala-134 to Ala-140, Arg-174 to Arg-184,	L0771: 5, L0439: 5, L0761: 4, L0794: 4, L0809: 4, L0666: 4,		

						L0743: 4, L0758: 4, H0661: 3, H0638: 3, H0618: 3, L0770: 3, L0803: 3, L0659: 3, L0790: 3, H0662: 2, H0181: 2, S0144: 2, S0142: 2, L0800: 2, L0663: 2, H0539: 2, L0740: 2, L0750: 2, H0713: 1, H0583: 1, S0212: 1, H0483: 1, H0402: 1, S0418: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, T0109: 1, H0250: 1, H0575: 1, H0253: 1, H0052: 1, H0194: 1, H0544: 1, H0546: 1, H0545: 1, H0024: 1, H0355: 1, H0688: 1, H0617: 1, H0124: 1, H0135: 1, H0163: 1, H0413: 1, S0038: 1, T0041: 1, H0509: 1, H0529: 1, L0371: 1, L0769: 1, L0638: 1, L0764: 1, L0648: 1, L0662: 1, L0804: 1, L0775: 1, L0629: 1, L0657: 1, L0656: 1,
					Ser-194 to Glu-199, Met-208 to Gln-217, Arg-258 to Gly-263.	

						L0647: 1, L0791: 1, L0438: 1, H0519: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, H0521: 1, H0436: 1, L0741: 1, L0749: 1, L0779: 1, L0759: 1, H0445: 1, S0398: 1 and H0352: 1.		
HPAMY22	1011840	447	1 - 180	2622	Pro-18 to Gln-36, Ser-43 to Ala-57.	H0682: 1		
HE9CP86	1011847	448	107 - 727	2623	Arg-13 to Arg-19, Asp-37 to Asp-43, Glu-127 to Asp-132, Asn-152 to Glu-171, Ala-179 to Ala-193.	L0748: 18, L0749: 8, L0755: 7, H0686: 4, S0360: 3, H0519: 3, H0659: 3, L0747: 3, L0758: 3, H0341: 2, H0622: 2, H0040: 2, H0616: 2, L0772: 2, L0375: 2, L0754: 2, L0779: 2, H0542: 2, H0294: 1, H0657: 1, H0656: 1, S0116: 1, H0663: 1, H0638: 1, S0376: 1, H0393: 1, H0083: 1, H0030: 1, L0055: 1, H0068: 1, H0591: 1, H0038: 1, H0412: 1, H0100: 1, L0475: 1, S0422: 1, L0763: 1, L0771: 1,		

						L0767: 1, L0768: 1, L0784: 1, L0776: 1, L0633: 1, L0783: 1, L0665: 1, H0144: 1, H0682: 1, S0378: 1, H0627: 1, L0752: 1, L0731: 1, S0026: 1, H0665: 1, S0242: 1 and H0543: 1.		
HPDOU46	1011883	449	24 - 692	2624		H0658: 2, L0750: 2, L0806: 1, L0790: 1 and L0779: 1.		
HFCDW73	1011901	450	3 - 425	2625		H0575: 1 and H0009: 1.		
HOVEB13	1011919	451	21 - 905	2626	Val-7 to Ser-12, Leu-79 to Asn-87, Lys-120 to Ala-125, Ala-166 to Arg-171, Lys-208 to Phe-217, Gln-234 to Pro-241, Asp-285 to Gln-290.	AR033: 6, AR089: 5, AR096: 4, AR055: 3, AR052: 3, AR060: 3, AR053: 2, AR061: 2, AR039: 1, AR104: 0 L0779: 4, H0428: 3, L0773: 2, L0662: 2, L0659: 2, L0602: 2, L0777: 2, L0596: 2, L0608: 2, H0170: 1, H0580: 1, S0045: 1, T0048: 1, H0052: 1, L0471: 1, H0628: 1, L0770: 1, L0761: 1, L0805: 1, L0653: 1, L0657: 1, L0512: 1,		

						H0682: 1, H0672: 1, L0748: 1, L0740: 1, L0749: 1, L0757: 1, S0031: 1, H0543: 1 and H0677: 1.	
HPAMS93	1011948	452	74 - 1114	2627		L0754: 8, L0766: 6, L0439: 6, S0414: 4, L0758: 4, S0360: 3, L0803: 3, L0666: 3, L0756: 3, L0731: 3, S0218: 2, H0676: 2, H0251: 2, H0457: 2, H0083: 2, H0038: 2, H0616: 2, L0770: 2, L0775: 2, H0144: 2, H0682: 2, H0436: 2, L0752: 2, L0485: 2, L0594: 2, H0624: 1, S0430: 1, H0657: 1, H0341: 1, S0358: 1, H0411: 1, H0431: 1, T0039: 1, H0013: 1, L0021: 1, H0194: 1, H0050: 1, H0020: 1, H0051: 1, H0375: 1, H0594: 1, S0003: 1, H0272: 1, S0386: 1, H0494: 1, S0438: 1, H0652: 1, S0422: 1, H0529: 1, L0765: 1,	

						L0771: 1, L0521: 1, L0804: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0519: 1, S0188: 1, H0478: 1, H0626: 1, S0028: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1, S0031: 1, H0445: 1 and S0026: 1.		
HCRBN71	1011966	453	1 - 420	2628		L0776: 6, L0766: 5, L0777: 3, L0758: 3, L0755: 2, H0327: 1, L0768: 1, L0805: 1, L0655: 1, L0788: 1, H0648: 1, H0672: 1, S0406: 1, L0747: 1, L0752: 1, L0757: 1 and S0196: 1.		
HCRNC60	1012005	454	637 - 1302	2629	Pro-16 to Asp-25, Arg-44 to Glu-50, Ser-63 to Arg-69, Glu-108 to Arg-115, Lys-122 to Gly-136, Arg-143 to Met-151,	L0471: 11, H0251: 9, L0163: 7, H0599: 5, H0295: 4, H0373: 4, S0210: 4, S0126: 3, S0356: 2, S0358: 2, H0619: 2, H0012: 2,	15q22.1	151670, 191010, 601780	

	Asp-167 to Glu-173, Asp-185 to Glu-194, Thr-206 to Asp-213.	H0628: 2, S0364: 2, H0551: 2, H0519: 2, S0026: 2, H0170: 1, T0049: 1, S0134: 1, H0656: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, S0360: 1, T0008: 1, H0411: 1, H0431: 1, H0432: 1, H0592: 1, S0005: 1, H0574: 1, H0270: 1, T0039: 1, H0013: 1, H0002: 1, H0036: 1, S0010: 1, S0474: 1, H0196: 1, T0115: 1, H0597: 1, H0545: 1, H0050: 1, H0024: 1, S0362: 1, H0200: 1, H0266: 1, S0022: 1, H0252: 1, H0039: 1, H0644: 1, H0032: 1, S0366: 1, H0090: 1, H0591: 1, T0041: 1, T0042: 1, H0509: 1, S0374: 1, H0520: 1, H0670: 1, H0651: 1, H0539: 1, S0380: 1, S0044: 1, S0118: 1, S0028: 1, L0748: 1, L0757: 1, L0588: 1,			

						S0011: 1, H0653: 1, H0665: 1, S0242: 1 and H0506: 1.		
HSPSJ24	1012064	455	284 - 925	2630	Pro-83 to Gln-90, Ala-123 to Gly-131, Glu-174 to Pro-183.	S0358: 2, S0360: 2, H0251: 2, H0622: 2, S0144: 2, L0659: 2, L0751: 2, L0777: 2, H0265: 1, S0134: 1, H0657: 1, H0486: 1, H0575: 1, S0010: 1, H0581: 1, H0052: 1, H0085: 1, H0266: 1, H0687: 1, H0644: 1, H0617: 1, L0662: 1, L0766: 1, L0549: 1, L0774: 1, L0775: 1, L0806: 1, L0657: 1, L0382: 1, H0683: 1, H0522: 1, H0555: 1, H0576: 1, L0754: 1, L0749: 1, L0758: 1, L0599: 1 and S0446: 1.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279
HPCPB22	1012076	456	3 - 554	2631	Arg-88 to Lys-93, Tyr-101 to Gly-107, Arg-169 to Pro-184.	H0659: 2 and L0378: 1.		
HOVDZ22	1012136	457	2 - 169	2632	Tyr-1 to Gly-13.	H0529: 7, L0766: 6, L0809: 6, L0777: 5, H0428: 3, H0656: 2, H0013: 2, H0620: 2, L0806: 2, L0665: 2,		

							H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0601: 2, H0484: 1, H0192: 1, S0420: 1, S0358: 1, H0575: 1, H0581: 1, H0046: 1, H0012: 1, T0010: 1, H0266: 1, H0622: 1, H0165: 1, H0673: 1, L0456: 1, H0068: 1, H0135: 1, H0087: 1, H0264: 1, H0412: 1, H0560: 1, L0763: 1, L0770: 1, L0771: 1, L0649: 1, L0561: 1, L0375: 1, L0805: 1, L0776: 1, L0518: 1, L0783: 1, L0666: 1, L0663: 1, H0520: 1, H0519: 1, S0126: 1, H0659: 1, H0672: 1, H0539: 1, H0436: 1, S3014: 1, L0741: 1, L0749: 1, L0750: 1, L0779: 1, L0731: 1, L0589: 1, L0581: 1, L0608: 1 and S0011: 1.		
						Pro-6 to Gln-11.		
					2633		H0584: 59, S0278: 16, S0444: 10, L0775: 10, L0809: 10, H0545: 9,	
				2 - 721				
			458					
		1012240						
	HBZSK53							

		S0144: 9, H0670: 9, S0408: 8, S0410: 7, L0761: 7, L0766: 7, L0731: 7, L0757: 7, H0617: 6, L0774: 6, H0656: 5, H0255: 5, S0358: 5, H0559: 5, H0620: 5, L0772: 5, S0328: 5, L0747: 5, H0341: 4, H0546: 4, H0059: 4, L0800: 4, L0754: 4, L0758: 4, H0638: 3, H0580: 3, H0250: 3, S0440: 3, H0652: 3, S0142: 3, L0764: 3, L0653: 3, L0783: 3, S0374: 3, H0522: 3, H0624: 2, H0657: 2, H0402: 2, H0637: 2, H0586: 2, H0486: 2, H0581: 2, L0763: 2, L0770: 2, L0374: 2, L0771: 2, L0773: 2, L0776: 2, L0790: 2, S0052: 2, H0684: 2, S0406: 2, S3014: 2, S0027: 2, L0779: 2, L0777: 2, H0445: 2, L0601: 2, H0167: 1, H0716: 1,			

						S0218: 1, L0785: 1, S0116: 1, H0254: 1, H0306: 1, S0442: 1, S0354: 1, S0045: 1, H0549: 1, H0587: 1, H0635: 1, H0575: 1, H0590: 1, S0182: 1, H0318: 1, H0421: 1, H0150: 1, H0123: 1, H0083: 1, H0179: 1, H0628: 1, H0063: 1, H0100: 1, T0042: 1, H0560: 1, H0641: 1, S0344: 1, L0769: 1, L0646: 1, L0644: 1, L0768: 1, L0794: 1, L0806: 1, L0655: 1, L0383: 1, L0791: 1, L0663: 1, S0216: 1, H0699: 1, H0703: 1, H0593: 1, S0126: 1, H0690: 1, H0672: 1, S0190: 1, H0187: 1, H0576: 1, L0611: 1, S0028: 1, L0749: 1, L0750: 1, L0755: 1, H0343: 1, H0668: 1, H0653: 1, H0543: 1 and H0422: 1.		
HBCPH02	1012453	459	3 - 773	2634	Arg-9 to Asp-14,	H0032: 3, H0090: 3,		

					Leu-38 to Gly-59, Pro-62 to Thr-75, Met-83 to Val-90, Thr-94 to Ser-105, Pro-109 to Glu-125, Phe-134 to Ser-139, Ile-141 to Lys-162, Cys-166 to Pro-180, Leu-202 to Pro-207, Ile-248 to Asn-253.	S0114: 2, H0123: 2, H0494: 2, H0445: 2, H0663: 1, H0455: 1, H0036: 1, H0457: 1, H0050: 1, H0039: 1, H0212: 1, H0433: 1, L0766: 1, S0206: 1 and L0749: 1.		126650,
HCONM62	1012454	460	20 - 1306	2635		H0521: 181, L0748: 11, H0551: 10, H0617: 8, H0046: 7, L0731: 7, H0623: 6, L0663: 6, H0547: 6, H0265: 5, S0418: 5, H0009: 5, H0553: 5, H0670: 5, L0740: 5, L0759: 5, H0556: 4, S0376: 4, S0046: 4, H0266: 4, H0135: 4, S0344: 4, L0665: 4, S0374: 4, H0689: 4, H0435: 4, H0658: 4, S3014: 4, S0206: 4, L0596: 4, H0543: 4, S0212: 3, H0483: 3, S0410: 3, S0132: 3, H0592: 3, H0012: 3, H0620: 3, H0039: 3, H0488: 3,	7q31	126650, 126650, 164860, 180105, 222800, 246900, 274600, 274600, 602081

		L0372: 3, L0764: 3, L0666: 3, H0519: 3, S0027: 3, S0028: 3, L0439: 3, L0750: 3, L0777: 3, H0665: 3, H0656: 2, H0638: 2, L0562: 2, L0539: 2, S0360: 2, H0208: 2, S0045: 2, L0717: 2, H0549: 2, H0586: 2, H0156: 2, H0052: 2, H0545: 2, H0024: 2, H0424: 2, H0213: 2, H0030: 2, H0087: 2, H0100: 2, T0042: 2, H0494: 2, H0560: 2, H0561: 2, S0440: 2, L0369: 2, L0640: 2, L0761: 2, L0646: 2, L0659: 2, L0540: 2, L0382: 2, L0809: 2, L0664: 2, L0438: 2, H0593: 2, H0648: 2, H0555: 2, L0757: 2, L0758: 2, S0434: 2, L0595: 2, S0192: 2, H0423: 2, H0422: 2, H0677: 2, H0624: 1, S0342: 1, S0218: 1, H0650: 1, H0657: 1,			

		H0341: 1, S0282: 1, H0255: 1, H0661: 1, H0662: 1, S0420: 1, S0356: 1, S0358: 1, S0444: 1, S0408: 1, H0645: 1, H0261: 1, H0550: 1, S0222: 1, H0441: 1, H0370: 1, H0587: 1, S0005: 1, H0333: 1, H0331: 1, T0040: 1, T0082: 1, T0048: 1, S0182: 1, H0318: 1, H0581: 1, S0049: 1, H0196: 1, H0251: 1, H0596: 1, H0327: 1, H0544: 1, H0572: 1, H0050: 1, L0471: 1, H0687: 1, H0286: 1, S0340: 1, S0003: 1, H0428: 1, H0033: 1, H0604: 1, H0644: 1, H0628: 1, H0181: 1, H0606: 1, L0055: 1, H0169: 1, L0455: 1, H0124: 1, S0366: 1, S0036: 1, H0040: 1, H0063: 1, H0433: 1, S0038: 1, L0475: 1, H0132: 1, H0641: 1, S0144: 1,				

HOGEU69	1012459	461	2 - 691	2636	Arg-1 to Ala-11, Ser-118 to Gln-126, Leu-200 to Thr-207, Lys-213 to Ala-218, Glu-225 to Thr-230.	L0740: 13, L0731: 10, L0755: 8, L0752: 6, H0551: 5, L0766: 5, H0672: 5, L0776: 4, L0757: 4, L0759: 4, H0494: 3, L0775: 3,	5q22-q23	121050, 126150, 159000, 175100, 175100, 175100,
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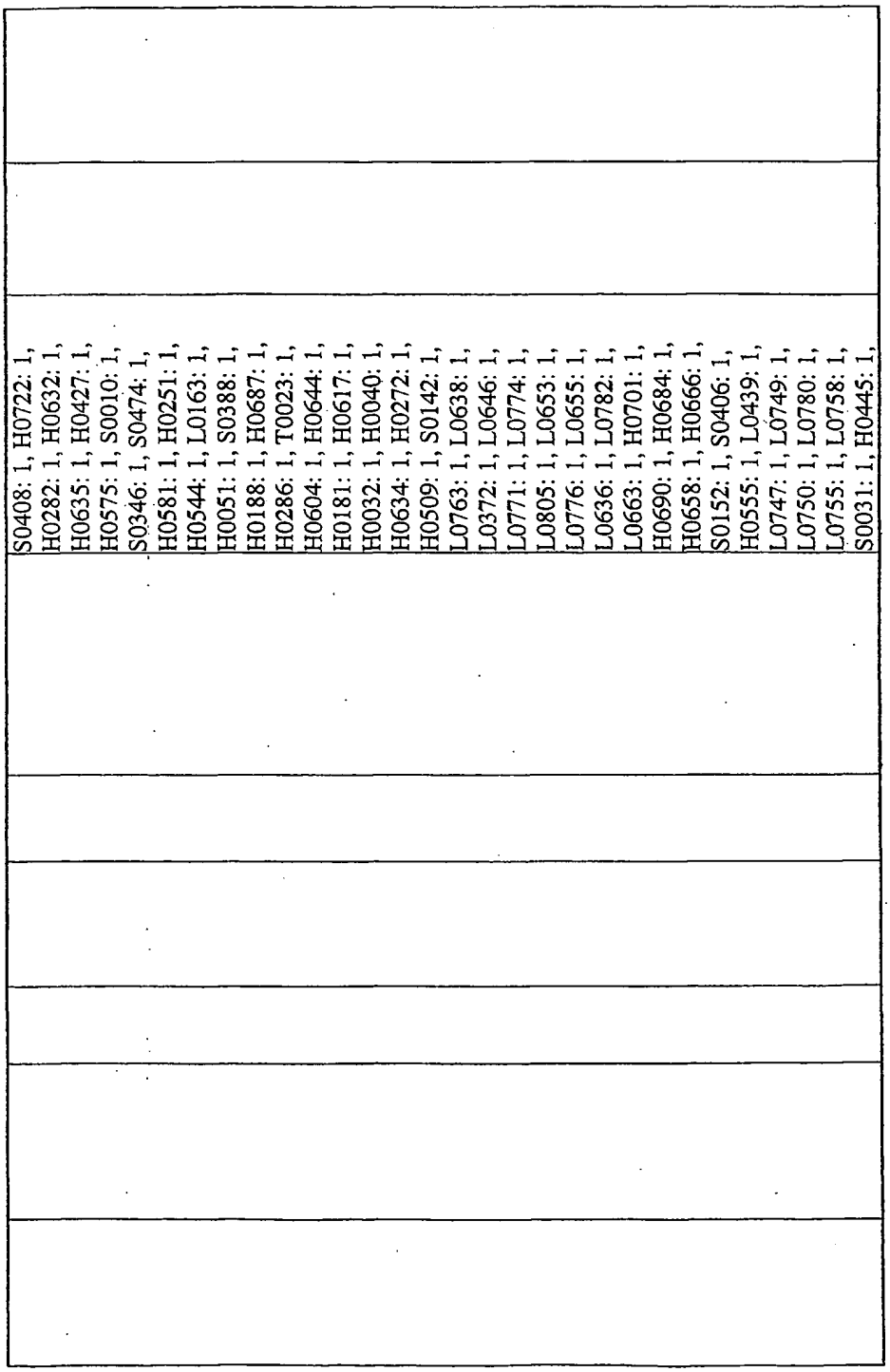
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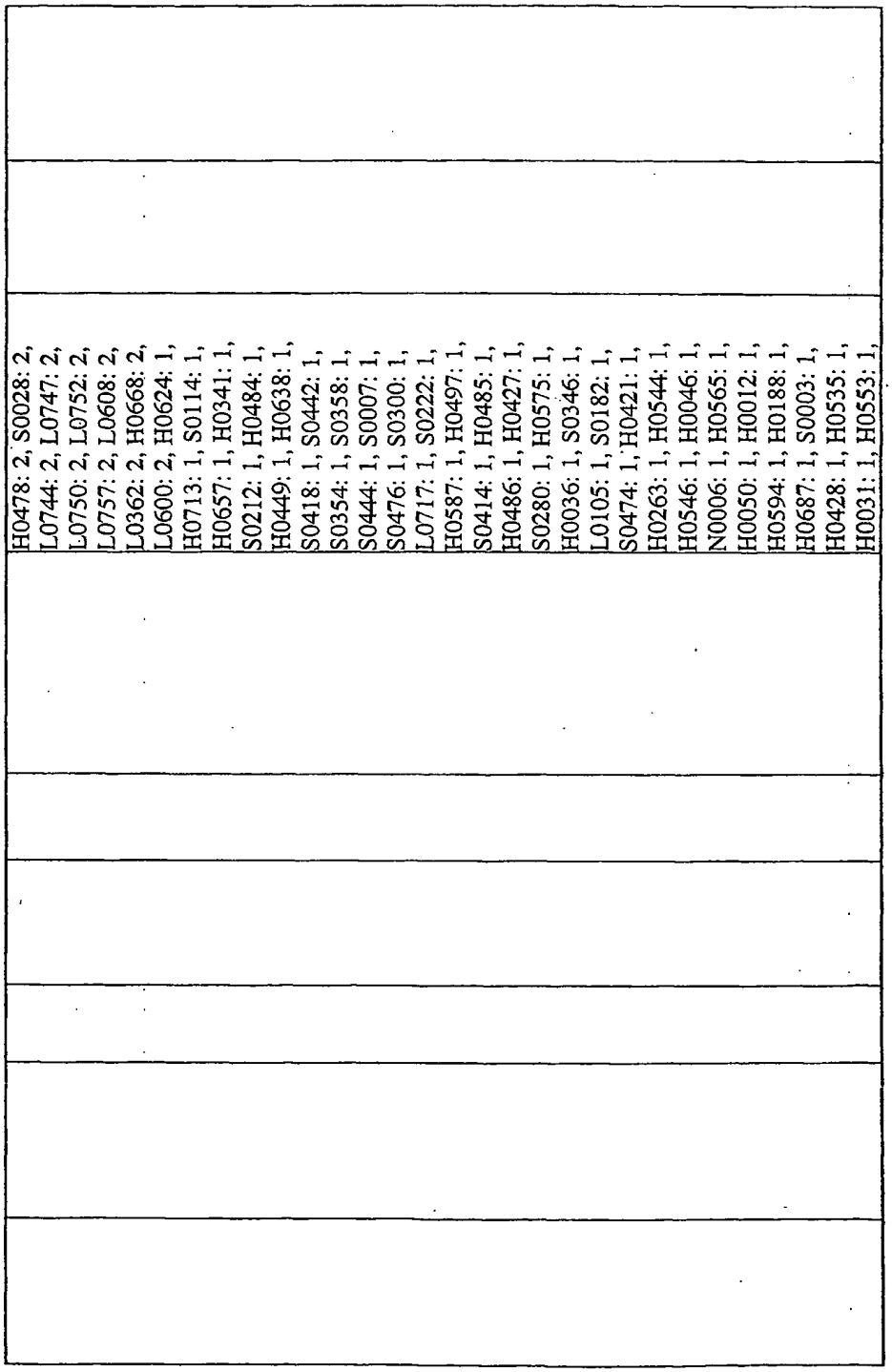
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HVVAF65	1012542	466	3 - 731	2641		L0748: 19, L0439: 7, L0731: 6, L0775: 4, S0356: 2, H0421: 2, H0509: 2, L0805: 2, L0783: 2, L0809: 2,	17q24-q25	114290, 115660, 138033, 139250, 148500,	

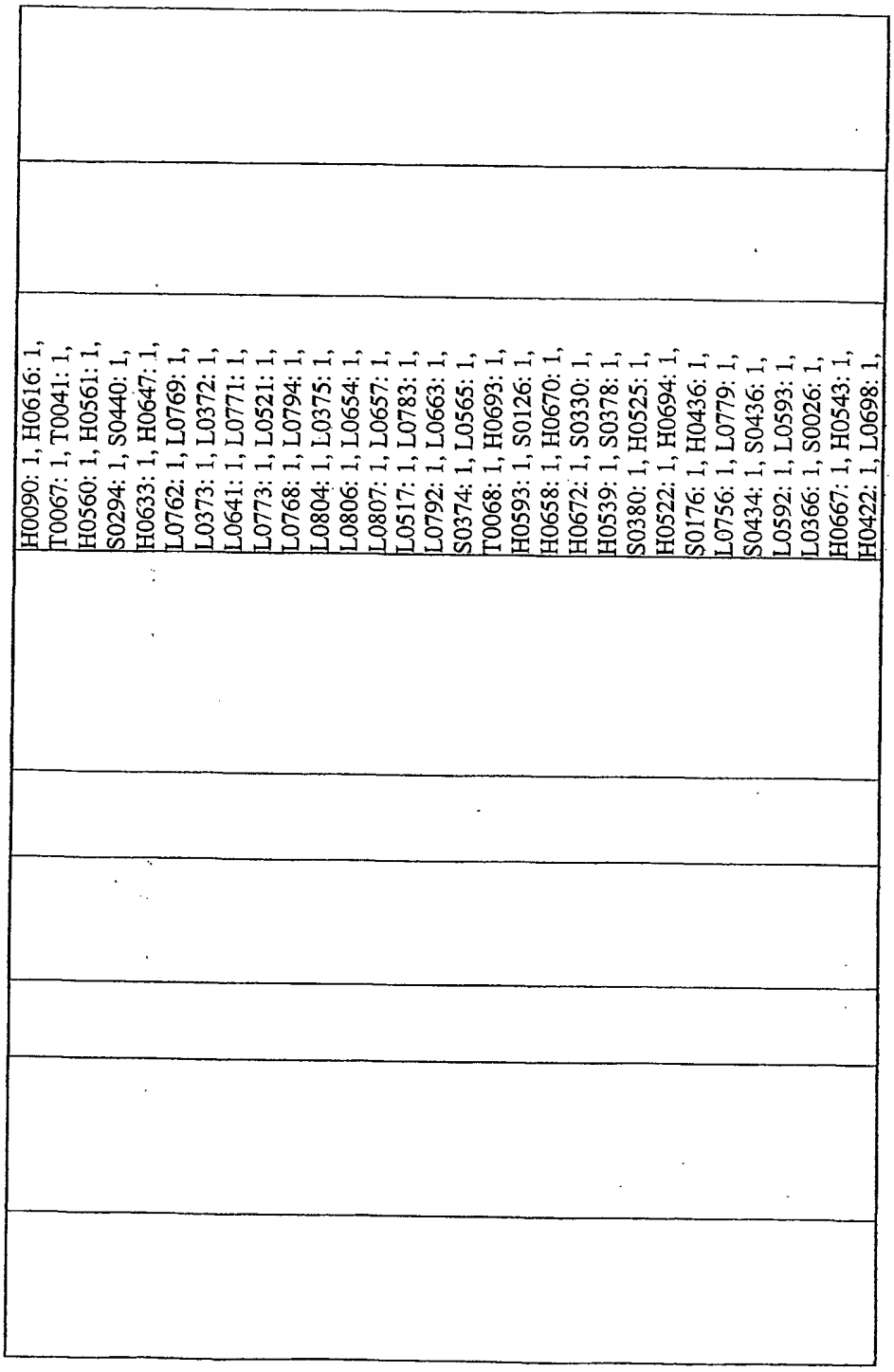
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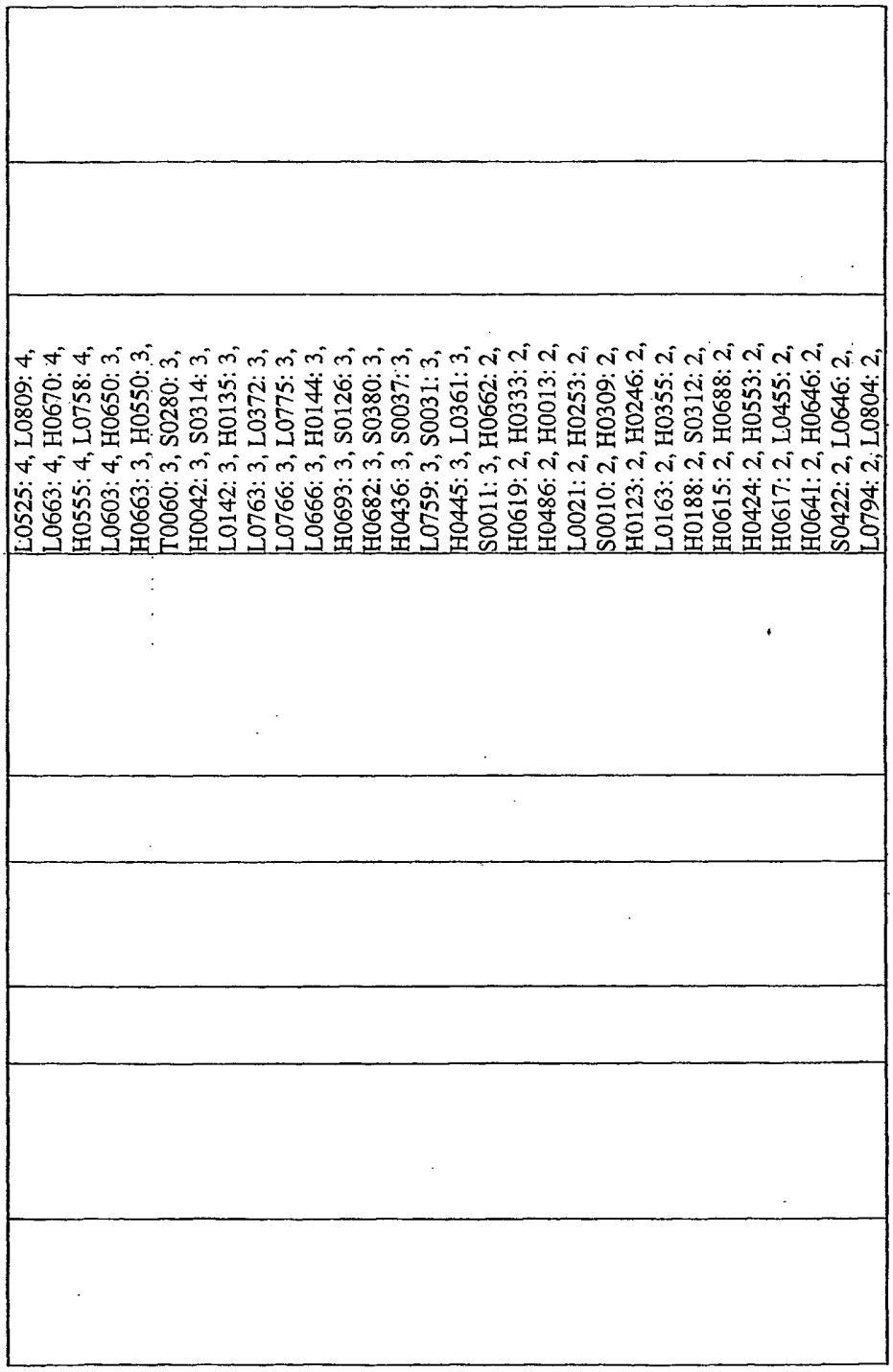

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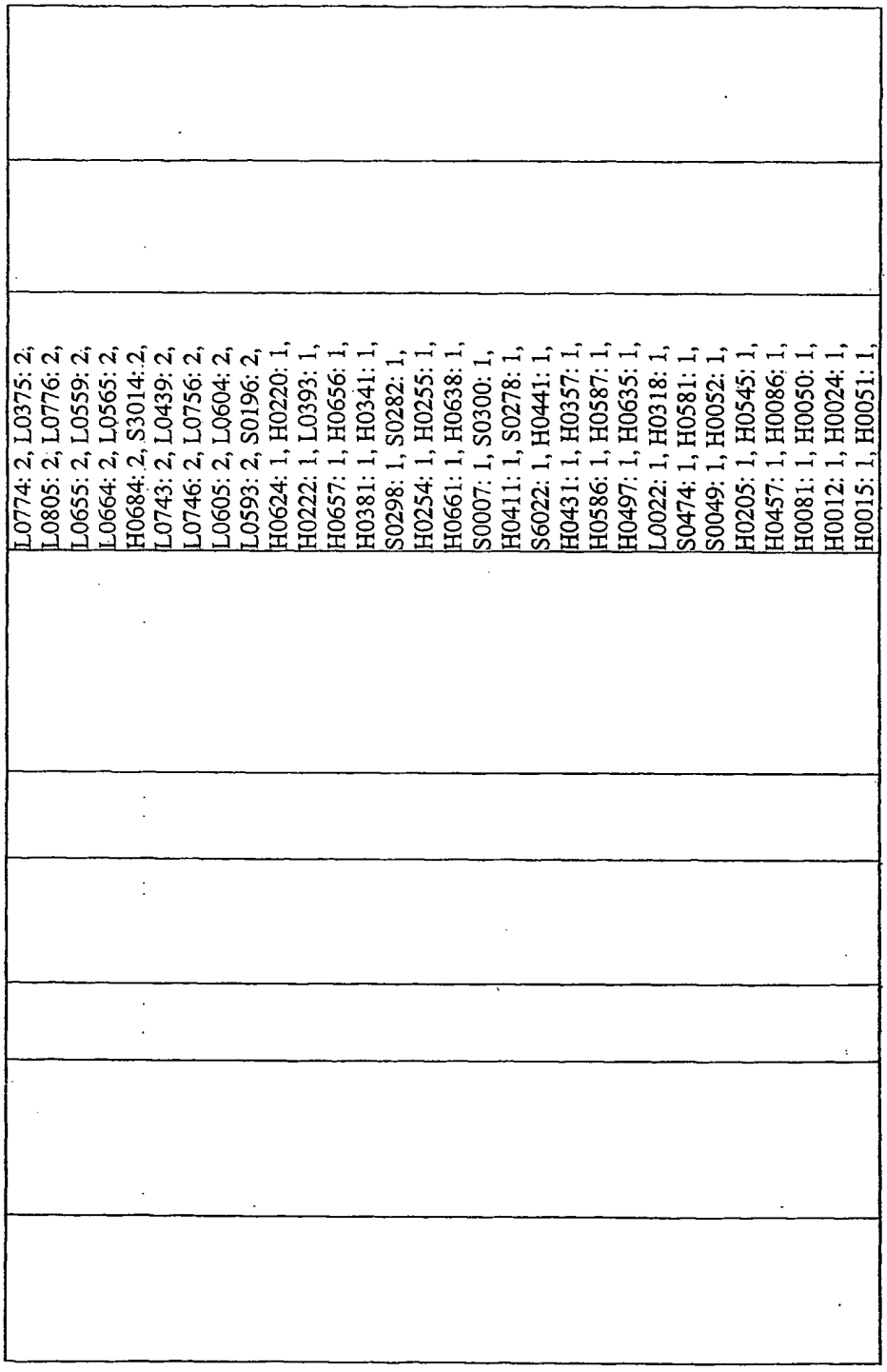
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HVVBR10	1012618	471		3 - 1079	2646	Lys-52 to Ser-59, Lys-121 to Pro-128, Ser-183 to Thr-189.	L0439: 13, L0748: 11, L0601: 8, L0747: 7, L0750: 7, L0438: 5, L0757: 5, L0770: 4, L0769: 4, L0764: 4, L0766: 4, L0731: 4, L0803: 3, L0775: 3, L0666: 3, H0521: 3, L0751: 3, L0758: 3, S0418: 2, H0550: 2, H0013: 2, H0052: 2, H0622: 2, H0494: 2, L0646: 2, L0771: 2, L0774: 2, L0663: 2, L0565: 2, H0593: 2, H0689: 2, H0672: 2, S0328: 2, L0752: 2, L0587: 2, L0600: 2, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0001: 1, S0360: 1, H0549: 1, H0455: 1, H0586: 1, H0587: 1, H0156: 1, H0253: 1, H0318: 1, H0581: 1, T0110: 1, H0150: 1, H0019: 1, H0050: 1, H0620: 1, S0050: 1, H0422: 1, S0042: 1, H0008: 1 and H0352: 1.		

HVVBK78	1012645	472	44 - 643	2647	Arg-11 to Arg-20.	H0672: 1 and S3014: 1.			
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HVVBJ28	1012654	475	2 - 1117	2650	Arg-1 to Gly-12, Gly-19 to Trp-25, Asp-31 to Gly-39, Gly-43 to Glu-52, Ala-63 to His-71, Asn-141 to Phe-152, Leu-200 to Leu-208.	L0803: 4, L0745: 4, L0758: 4, H0672: 3, S0007: 2, H0090: 2, L0769: 2, L0804: 2, L0774: 2, L0809: 2, L0439: 2, L0749: 2, L0731: 2, L0599: 2, L0362: 2, S0418: 1, S0360: 1, S0046: 1, H0431: 1, H0486: 1, H0013: 1, L0021: 1, H0042: 1, S0010: 1, H0052: 1, H0046: 1, H0024: 1, H0266: 1, H0687: 1, S0022: 1, H0553: 1, L0770: 1, L0794: 1, L0783: 1, L0529: 1, H0435: 1, S0152: 1, H0521: 1,	4q27-q28	107250, 134820, 134820, 134820, 134830, 134850, 134850, 147680, 181600, 189800, 266300, 600919

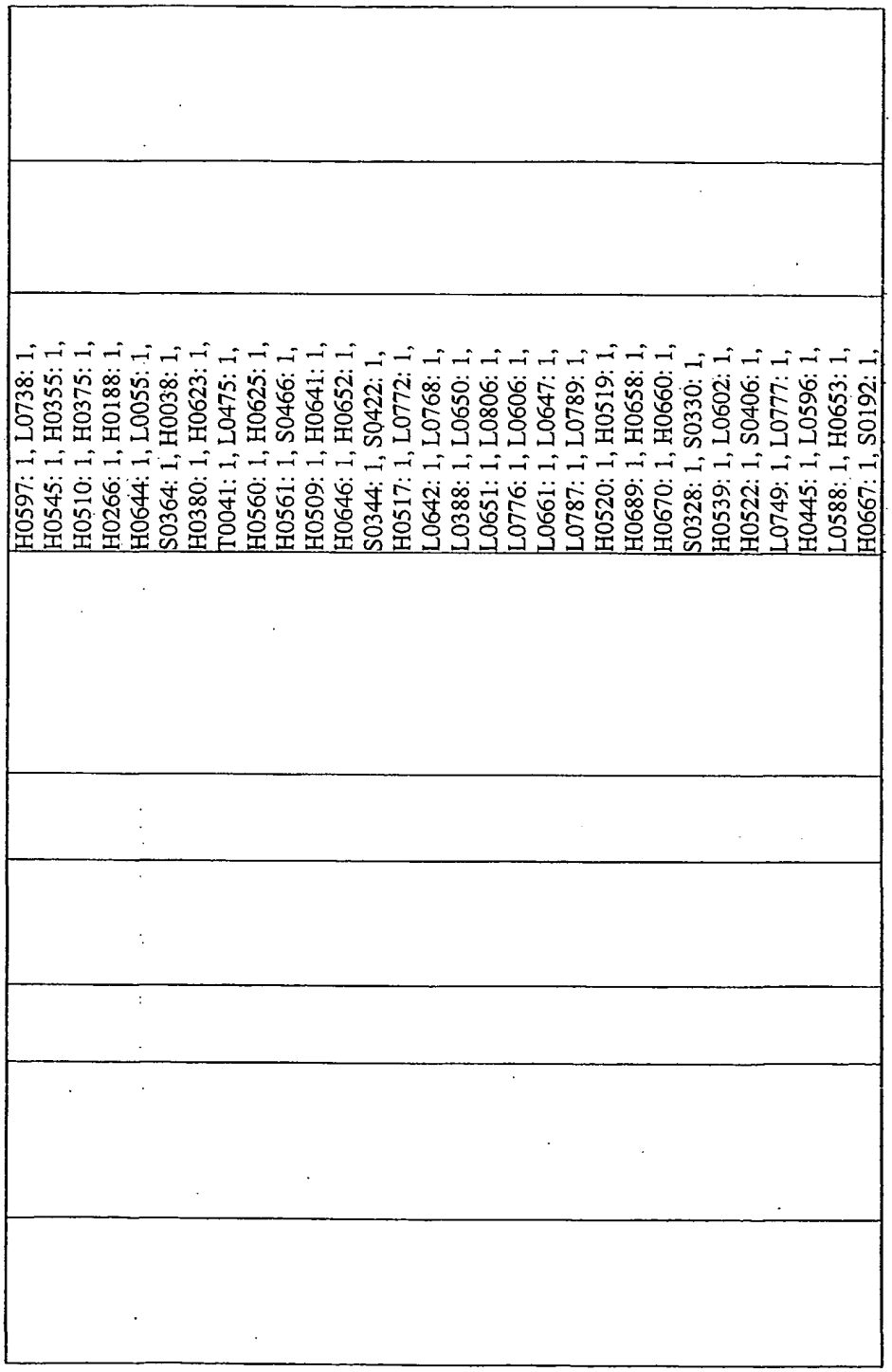
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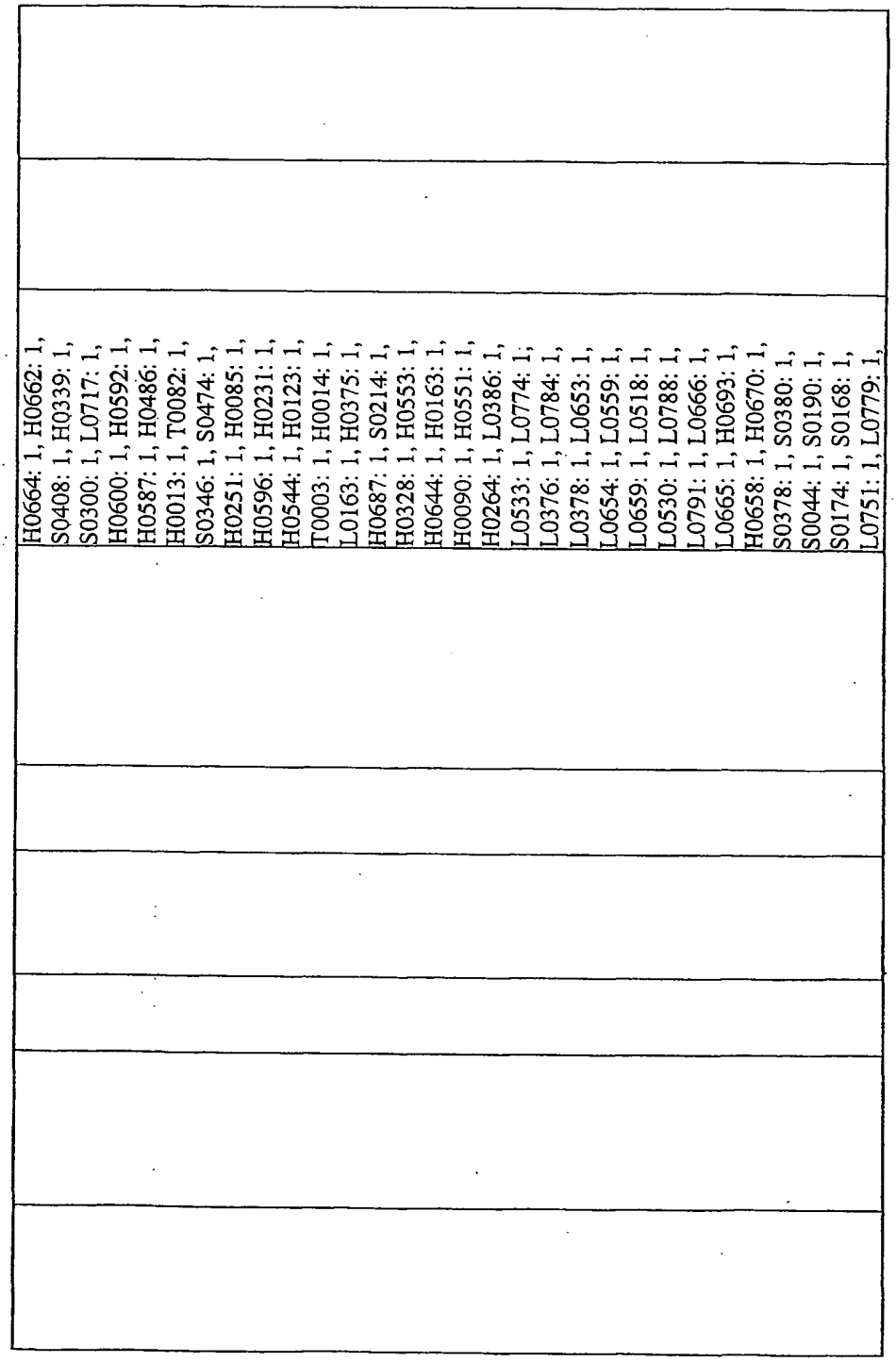
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HVVAQ22	1012684	480	43 - 573	2655	His-1 to Asn-13, Ser-31 to Ser-42, Glu-47 to Val-55, Glu-65 to Val-70, Ile-95 to Asp-100,		

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HOCMN67	1012700	482	1 - 1182	2657	H0457: 9, H0695: 8, H0542: 7, H0521: 4, H0436: 4, H0581: 3, H0052: 3, H0135: 3, H0494: 3, H0650: 2, H0656: 2, S0356: 2, H0059: 2, H0641: 2, H0660: 2, L0741: 2, H0543: 2, H0265: 1, H0583: 1, H0255: 1, H0458: 1, S0360: 1, H0580: 1, S0278: 1, H0438: 1, H0492: 1, H0036: 1, H0590: 1,		

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HAPOW35	1012711	483	92 - 619	2658	Ile-32 to Phe-42.	S0418: 2, S0328: 2, H0521: 2, H0733: 1, S0132: 1, H0575: 1, H0024: 1, H0135: 1, H0038: 1, S0038: 1, S0406: 1, L0439: 1 and H0543: 1.			
HOVJM48	1013085	484	2 - 454	2659		H0688: 2, L0766: 2, H0494: 1, L0652: 1, L0731: 1 and L0759: 1.			
HBJHY84	1013213	485	1524 - 208	2660	Gln-1 to Asp-24, Phe-40 to Gln-46.	L0766: 12, L0758: 8, S0422: 7, L0794: 6, H0622: 5, H0666: 5, L0754: 5, L0592: 5, H0040: 4, L0663: 4,			

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HODEY05	1013215	486	525 - 701	2661	Val-10 to Ser-18, Pro-30 to Glu-36, Glu-47 to Gly-54.	H0428: 2, S0114: 1, H0656: 1, H0263: 1, H0615: 1, H0684: 1 and L0749: 1.		
HFIAS44	1013288	487	112 - 1629	2662	Arg-31 to Leu-43, Gly-63 to Trp-78, Thr-84 to Pro-89, Asp-120 to Gly-141, Glu-155 to Val-177, Leu-204 to Ser-214, Pro-230 to Lys-236, Lys-300 to Lys-307, Arg-329 to Ile-340, Pro-343 to Ala-368, Glu-375 to Pro-434, Leu-441 to Lys-446, Lys-464 to Glu-495.		14	
HHAUD68	1013349	488	212 - 538	2663	Gly-1 to Pro-6, Pro-21 to Ser-44, Pro-51 to Lys-78,	L0740: 4, H0591: 3, H0583: 2, H0013: 2, H0575: 2, H0266: 2,	6p21.3	106300, 108800, 120290,

					Asp-80 to Ser-95, Leu-97 to Glu-103.	H0264: 2, L0805: 2, H0144: 2, S0330: 2, L0439: 2, H0445: 2, H0170: 1, H0556: 1, S0040: 1, S0218: 1, H0656: 1, H0125: 1, S0418: 1, S0376: 1, H0587: 1, H0497: 1, T0039: 1, H0069: 1, H0635: 1, H0599: 1, H0590: 1, H0318: 1, H0052: 1, H0596: 1, H0050: 1, S0003: 1, H0622: 1, H0090: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0488: 1, S0016: 1, H0561: 1, S0002: 1, L0654: 1, L0518: 1, S0374: 1, S0126: 1, H0659: 1, H0660: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0555: 1, L0750: 1, L0756: 1, L0757: 1, L0596: 1, L0590: 1, L0592: 1, S0026: 1, H0217: 1 and H0542: 1.		120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
HEEAA89	1013436	489	1 - 675	2664	Trp-4 to Ser-11, Asn-17 to Arg-23.	L0748: 6, S0422: 4, H0658: 4, L0717: 3,	15q13	103581, 146150,

218000, 227220, 601623, 601800, 601889, 602117						
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HNTAK22	1013524	490	2 - 3175	2665	Lys-1 to Lys-21.	H0519: 2, S0126: 2, H0341: 1, H0125: 1, L0562: 1, S0049: 1, H0123: 1, H0687: 1, H0292: 1, H0284: 1, S0312: 1, S0250: 1, H0622: 1, S0466: 1, L0649: 1, S0037: 1 and H0677: 1.	7	
HOVBX78	1013687	491	185 - 646	2666		AR096: 62, AR104: 41, AR089: 24, AR060: 24, AR061: 20, AR033: 16, AR053: 11, AR055: 11, AR039: 6 H0644: 5, L0439: 4, L0438: 3, S0278: 2, L0483: 2, H0581: 1, H0046: 1, H0355: 1, H0266: 1, H0038: 1, H0670: 1, H0521: 1, S0027: 1, L0740: 1 and		

HVVAW74	1013740	492	1066 - 575	2667	Ala-16 to His-30, Leu-106 to Gly-112, Asp-129 to Pro-137, Thr-144 to Leu-150.	S0260: 1, L0526: 11, L0622: 8, H0670: 8, H0087: 7, S0360: 5, H0594: 5, H0188: 5, H0412: 5, S0206: 5, H0218: 4, S0418: 4, H0318: 4, H0024: 4, H0617: 4, L0770: 4, L0783: 4, S0328: 4, S0027: 4, H0265: 3, H0663: 3, T0048: 3, H0597: 3, H0123: 3, H0673: 3, S0366: 3, H0135: 3, H0616: 3, S0002: 3, L0775: 3, L0776: 3, L0518: 3, L0663: 3, H0144: 3, S0374: 3, S0126: 3, S0380: 3, S3014: 3, H0352: 3, H0624: 2, H0556: 2, H0219: 2, S0114: 2, H0657: 2, H0341: 2, S0110: 2, H0661: 2, H0305: 2, H0351: 2, H0492: 2, T0039: 2, H0052: 2, H0546: 2, H0178: 2, H0083: 2, H0688: 2, H0068: 2, H0038: 2, H0040: 2,	19pter-q12		

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HSPSF84	1013853	493	645 - 205	2668	Ser-4 to Arg-9, Ala-97 to Asp-104.	S0358: 6, H0024: 3, H0696: 3, L0581: 3, H0123: 2, L0776: 2,	

HPAMV95	1014003	494	3 - 713	2669	Lys-70 to Tyr-79, Lys-97 to Asp-102, Ser-154 to Ser-160, Asn-162 to Cys-169, Lys-212 to Ser-217, Ala-225 to Glu-230.	L0603: 8, L0754: 6, L0757: 4, L0758: 4, H0619: 3, H0622: 3, S0354: 2, S0360: 2, H0351: 2, H0586: 2, H0544: 2, N0006: 2, S0250: 2, H0030: 2, H0644: 2, H0617: 2, L0783: 2, H0658: 2, H0670: 2, H0648: 2, H0657: 1, S0116: 1, S0001: 1, H0661: 1, H0663: 1, H0450: 1, S6022: 1, H0438: 1, H0013: 1, S0280: 1, T0082: 1, H0421: 1, H0428: 1, T0067: 1, H0477: 1, S0038: 1, H0494: 1, L0762: 1, L0371: 1, L0800: 1, L0644: 1, L0773: 1, L0648: 1, L0662: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0657: 1, L0666: 1, L0664: 1, H0682: 1, H0683: 1, S0378: 1, L0748: 1, L0751: 1, L0747: 1, L0753: 1, L0608: 1 and H0543: 1.	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470

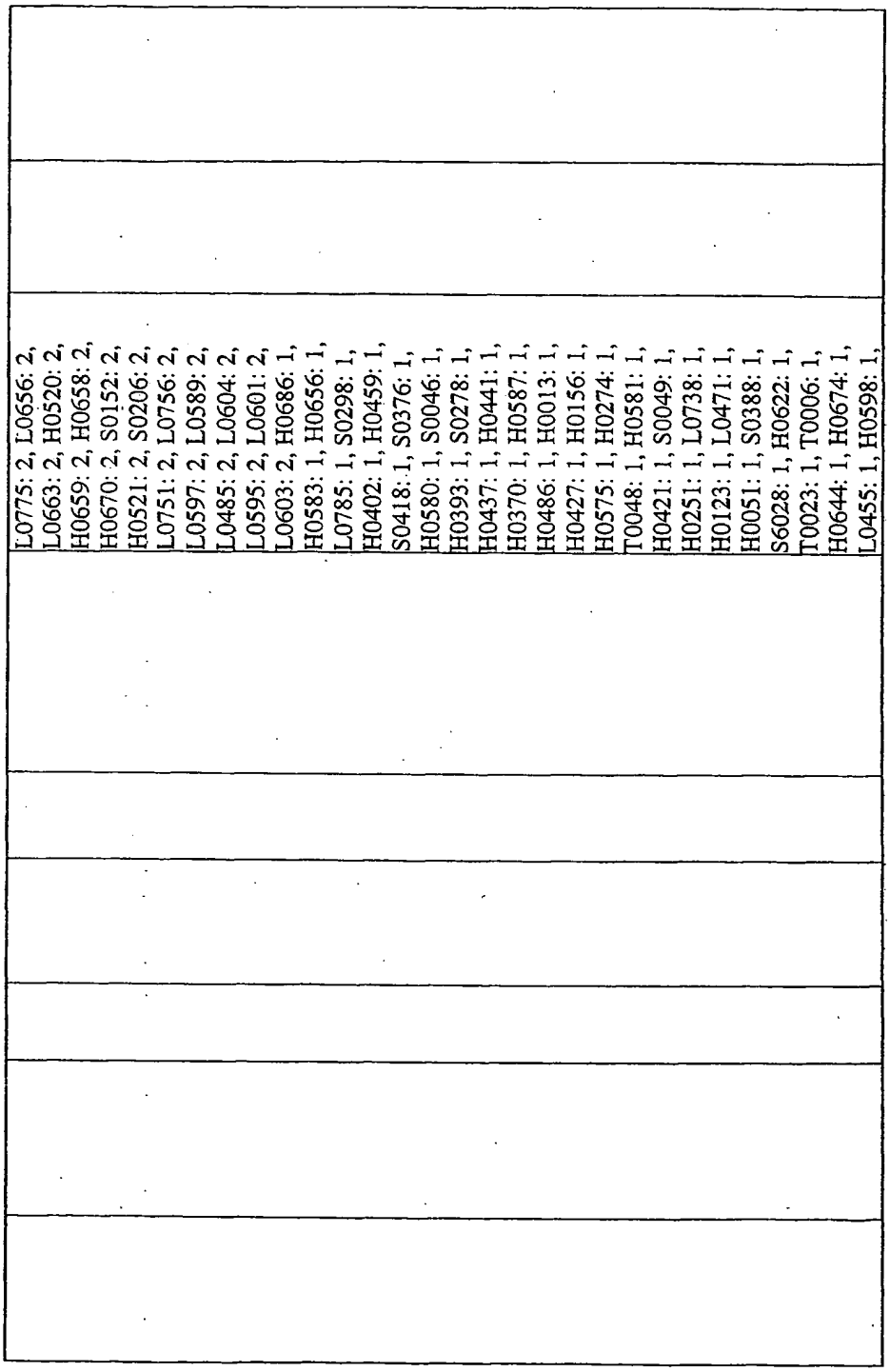
HOVBX22	1014041	495	223 - 312	2670	Ile-3 to Ser-11, Arg-24 to Glu-30.	H0428: 3		
HPDRB63	1014204	496	2 - 571	2671		H0123: 2, L0764: 2,		

						L0794: 2, L0803: 2, S0356: 1, H0318: 1, H0551: 1, L0662: 1, L0804: 1, H0658: 1, H0539: 1, L0786: 1, H0543: 1 and H0423: 1.		
HNHGJ66	1014252	497	2201 - 2467	2672	Lys-1 to Ser-8, Asn-32 to Asn-41, Gln-48 to Glu-53, Arg-73 to Ser-89.	AR061: 5, AR055: 3, AR096: 3, AR089: 2, AR033: 2, AR060: 2, AR104: 2, AR053: 1 S0038: 1 and S0053: 1.		
HDPPN96	1014432	498	395 - 2434	2673	Met-8 to Lys-13, Met-46 to Lys-52, Leu-89 to Lys-95, Ala-100 to Val-109, Pro-131 to Ser-160, Arg-172 to Thr-178.	H0264: 1 and H0522: 1.	1q22	104770, 107670, 110700, 145001, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 602491
HPCTH41	1014485	499	165 - 890	2674	Ala-15 to Tyr-24, His-32 to Lys-48, Ala-60 to Gly-73, Ser-82 to Phe-88,	L0731: 10, L0758: 9, L0592: 8, L0770: 7, L0439: 7, L0754: 7, L0766: 5, L0764: 4,	11q25	602782

					Phe-105 to Phe-111, Phe-124 to Thr-138, Glu-211 to Val-217, Val-219 to Gln-224.	L0662: 4, L0659: 4, L0745: 4, L0655: 3, L0666: 3, L0663: 3, S0052: 3, L0748: 3, L0747: 3, L0750: 3, H0170: 2, S0360: 2, S0046: 2, H0013: 2, L0771: 2, L0768: 2, L0794: 2, L0803: 2, L0805: 2, L0664: 2, H0144: 2, L0565: 2, H0658: 2, H0710: 2, L0740: 2, L0749: 2, L0757: 2, L0608: 2, H0556: 1, H0686: 1, H0294: 1, S0114: 1, S0282: 1, S0029: 1, H0306: 1, L0005: 1, S0356: 1, S0300: 1, H0351: 1, H0369: 1, S0222: 1, H0587: 1, T0060: 1, H0250: 1, H0635: 1, H0156: 1, S0010: 1, H0052: 1, H0263: 1, H0596: 1, L0738: 1, H0545: 1, H0103: 1, S0051: 1, S0003: 1, S0214: 1, H0328: 1, L0143: 1, H0616: 1, H0412: 1,			

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HPCTY73	1014646	500	2 - 2299	2675	Cys-5 to Gly-10, Ala-22 to Pro-31, Lys-107 to Pro-114, Ala-149 to Arg-157, Ile-294 to Leu-299, Ser-356 to Pro-363, Pro-384 to Phe-392,	L0591: 18, S0027: 14, H0124: 12, L0596: 11, H0040: 10, S3014: 10, L0608: 10, H0519: 8, L0757: 8, H0556: 7, S0132: 7, S0126: 7, S0192: 7, S0358: 6,	7p15		

	Ala-474 to Gly-481, Ala-489 to Tyr-494, Pro-512 to Lys-517, Arg-623 to Thr-630, Lys-673 to Ser-678, Thr-703 to His-709, Arg-714 to Arg-720, Gly-755 to Glu-766.				H0543: 6, S0040: 5, S0003: 5, S0022: 5, S0214: 5, S0144: 5, S0037: 5, L0747: 5, L0777: 5, L0362: 5, S0026: 5, T0039: 4, H0318: 4, H0266: 4, H0560: 4, L0590: 4, L0599: 4, L0594: 4, S0011: 4, H0265: 3, H0657: 3, S0116: 3, H0663: 3, S0360: 3, S0045: 3, H0497: 3, H0559: 3, S0010: 3, H0052: 3, L0483: 3, H0090: 3, H0494: 3, L0766: 3, L0659: 3, L0666: 3, H0435: 3, L0602: 3, S3012: 3, L0740: 3, L0750: 3, L0731: 3, L0759: 3, H0542: 3, S0212: 2, H0431: 2, H0024: 2, H0014: 2, H0083: 2, H0428: 2, H0628: 2, H0617: 2, H0634: 2, H0551: 2, L0065: 2, H0509: 2, S0150: 2, S0210: 2, H0529: 2, L0770: 2, L0768: 2,	601649


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H0445: 1, L0592: 1,
S0194: 1, H0423: 1,
H0422: 1, S0424: 1 and

HCOPQ33	1014730	501	3 - 380	2676	Ser-3 to Gln-34, Pro-43 to Ser-48, Pro-51 to Tyr-69, Asn-87 to Pro-92, Pro-107 to Val-119.	H0008: 1.	S0360: 8, S0356: 6, L0769: 6, L0598: 4, L0666: 4, L0750: 4, L0779: 4, L0758: 4, H0013: 3, L0803: 3, L0517: 3, L0809: 3, S0222: 2, H0592: 2, L0471: 2, H0169: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0783: 2, L0664: 2, H0144: 2, H0670: 2, S0380: 2, L0748: 2, L0747: 2, L0777: 2, S0026: 2, H0624: 1, H0171: 1, S0040: 1, S6024: 1, L0002: 1, H0663: 1, L0005: 1, S6026: 1, H0351: 1, H0455: 1, H0600: 1, T0040: 1, H0244: 1, S0010: 1, H0052: 1, L0738: 1, S0316: 1, H0328: 1, H0615: 1, H0388: 1, H0135: 1, T0067: 1, H0059: 1, H0560: 1, H0647: 1, L0763: 1, L0646: 1, L0773: 1, L0662: 1,		

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HOEBR36	1014754	502	396 - 1061	2677		T0004: 2, L0372: 1, L0521: 1, L0806: 1, S0126: 1, H0435: 1 and L0731: 1.		
HLWDZ66	1014849	503	3 - 695	2678	Asp-24 to Val-36, Lys-38 to Glu-49, Pro-80 to Ser-90, Thr-131 to Gly-138.	AR096: 5, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0803: 6, L0759: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, S0442: 2, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1,		

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HOEER36	1014869	504	3051 - 2260	2679	Ala-32 to Ala-38, Pro-55 to Glu-72, Ala-83 to Glu-109, Glu-114 to Leu-121, Thr-135 to Lys-143, Leu-149 to Lys-166, Val-173 to Ser-178, Lys-185 to Gln-195, Pro-208 to Thr-214, Gln-243 to Arg-253, Lys-259 to Lys-264.	L0439: 13, L0766: 11, L0747: 11, L0740: 10, L0752: 9, L0776: 8, L0809: 7, L0777: 7, L0769: 6, L0803: 6, L0748: 6, L0759: 6, L0764: 5, H0659: 5, L0755: 5, L0761: 4, L0806: 4, L0438: 4, L0749: 4, L0779: 4, L0758: 4, H0083: 3, L0796: 3, L0662: 3,	6p23	

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L0768: 2, L0804: 2,
L0774: 2, L0775: 2,
L0655: 2, L0545: 2,
L0665: 2, H0547: 2,
H0689: 2, S0380: 2,
S3012: 2, S3014: 2,
L0756: 2, H0595: 2,
L0588: 2, L0605: 2,
L0362: 2, L0601: 2,
S0424: 2, H0624: 1,
H0171: 1, H0556: 1,
S0212: 1, H0664: 1,
L0005: 1, S0354: 1,
S0360: 1, S0410: 1,
H0580: 1, S0046: 1,
H0393: 1, H0411: 1,
H0549: 1, H0370: 1,
H0559: 1, H0427: 1,
H0318: 1, S0474: 1,
H0085: 1, T0115: 1,
H0327: 1, H0545: 1,

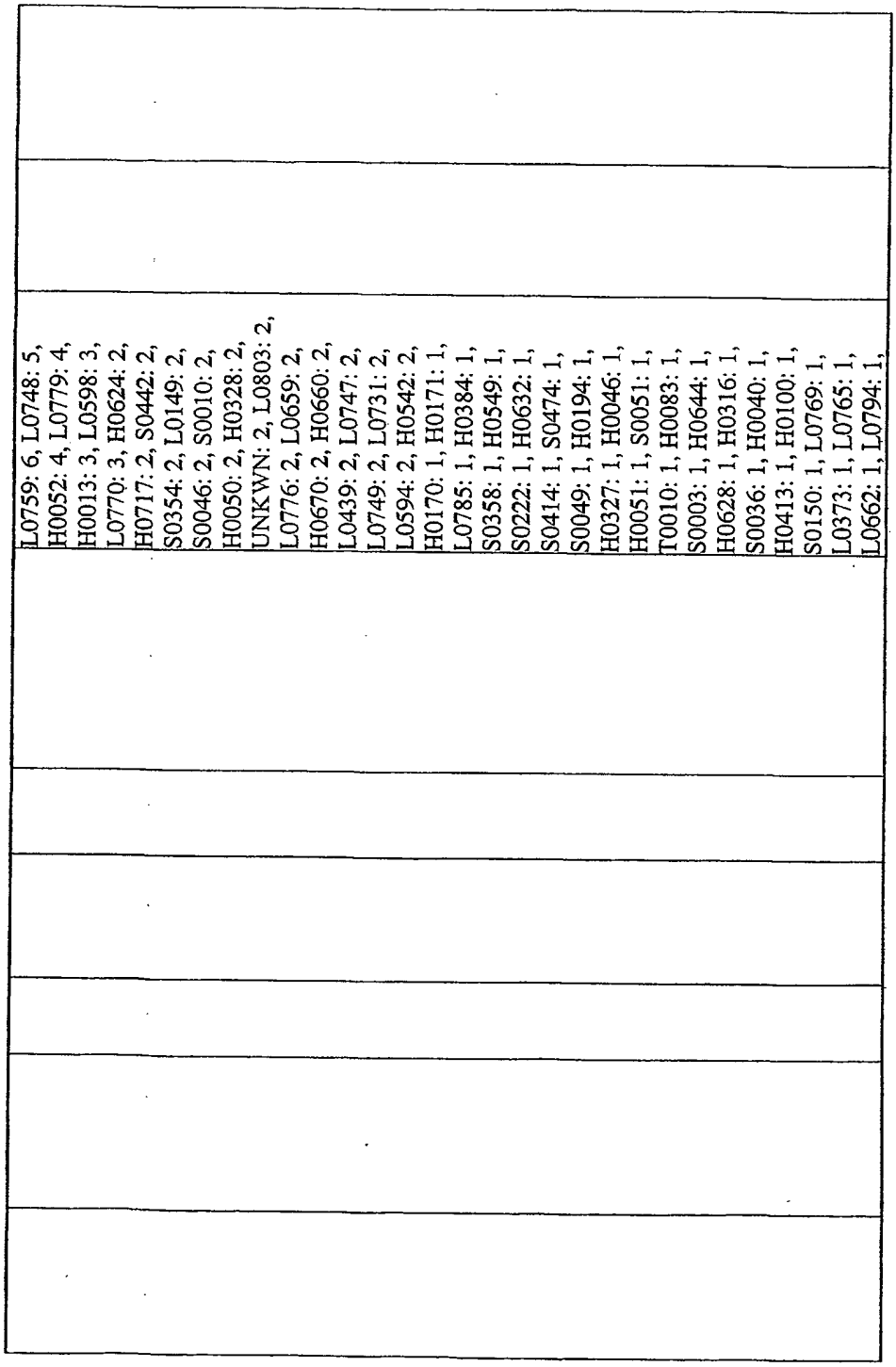
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HE8OX75	1015010	505	18 - 170	2680	Ser-1 to Tyr-6.	L0803: 4, L0745: 3, L0804: 2, L0805: 2, H0672: 2, L0742: 2, L0752: 2, L0759: 2, H0583: 1, H0369: 1, H0550: 1, H0013: 1,	

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HVASI06	1015024	506	67 - 1365	2681	L0809: 8, L0666: 8, S0436: 8, H0038: 6, S0330: 6, S0442: 5, S0440: 5, L0662: 5, L0794: 5, L0663: 5, H0040: 4, L0776: 4, L0664: 4, L0740: 4, L0754: 4, L0601: 4, S0358: 3, S0376: 3, S0444: 3, L0157: 3, L0763: 3, L0770: 3, L0803: 3, L0653: 3, L0659: 3, L0665: 3, H0658: 3, H0672: 3, H0341: 2, H0125: 2, S0408: 2, H0587: 2, H0360: 2, H0318: 2, H0263: 2, H0231: 2, H0328: 2, H0615: 2, T0023: 2, H0561: 2, L0372: 2, L0800: 2, L0768: 2, L0766: 2,		

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HDPXP07	1015059	507	3 - 242	2682	Lys-1 to Trp-11, Asn-13 to Lys-30,	L0638: 1, L0641: 1, L0643: 1, L0764: 1, L0363: 1, L0649: 1, L0774: 1, L0775: 1, L0376: 1, L0805: 1, L0527: 1, L0657: 1, L0512: 1, L0783: 1, L0382: 1, L0787: 1, L0532: 1, S0216: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0682: 1, H0683: 1, H0435: 1, H0670: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, H0696: 1, S0044: 1, S0146: 1, S0406: 1, S3012: 1, S0027: 1, S0028: 1, L0746: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0758: 1, S0031: 1, L0599: 1, L0608: 1, L0595: 1, H0668: 1, H0665: 1, S0276: 1, H0423: 1, S0424: 1, UNKWN: 1, L0600: 1 and H0008: 1.	L0766: 7, L0769: 4, L0747: 4, L0758: 4,		

					Leu-33 to Thr-53.	H0251: 3, L0805: 3, S0007: 2, S0414: 2, H0644: 2, H0672: 2, S0026: 2, H0686: 1, H0713: 1, H0663: 1, S0376: 1, S0360: 1, S0046: 1, L0717: 1, H0574: 1, H0486: 1, H0427: 1, H0596: 1, L0040: 1, L0738: 1, H0046: 1, H0571: 1, L0471: 1, S0051: 1, H0510: 1, S0003: 1, S0214: 1, H0674: 1, H0708: 1, H0038: 1, H0412: 1, H0646: 1, S0002: 1, L0773: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0606: 1, L0783: 1, L0792: 1, L0665: 1, H0660: 1, H0648: 1, H0521: 1, H0555: 1, L0743: 1, L0756: 1, L0777: 1, L0755: 1, L0759: 1, S0031: 1, L0362: 1, H0542: 1 and H0543: 1.		
HE2KH02	1015093	508	1 - 615	2683		L0777: 11, L0438: 7,		


L0759: 6, L0748: 5,
H0052: 4, L0779: 4,
H0013: 3, L0598: 3,
L0770: 3, H0624: 2,
H0717: 2, S0442: 2,
S0354: 2, L0149: 2,
S0046: 2, S0010: 2,
H0050: 2, H0328: 2,
UNKWN: 2, L0803: 2,
L0776: 2, L0659: 2,
H0670: 2, H0660: 2,
L0439: 2, L0747: 2,
L0749: 2, L0731: 2,
L0594: 2, H0542: 2,
H0170: 1, H0171: 1,
L0785: 1, H0384: 1,
S0358: 1, H0549: 1,
S0222: 1, H0632: 1,
S0414: 1, S0474: 1,
S0049: 1, H0194: 1,
H0327: 1, H0046: 1,
H0051: 1, S0051: 1,
T0010: 1, H0083: 1,
S0003: 1, H0644: 1,
H0628: 1, H0316: 1,
S0036: 1, H0040: 1,
H0413: 1, H0100: 1,
S0150: 1, L0769: 1,
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L0662: 1, L0794: 1,

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HSPSI60	1015133	509	2230 - 1901	2684	Gln-20 to Glu-27, Ser-43 to Ser-49, Ser-89 to Ala-95.	L0766: 5, L0438: 3, L0777: 3, H0090: 2, L0439: 2, L0731: 2, L0759: 2, S0114: 1, H0318: 1, L0471: 1, H0687: 1, H0509: 1, H0695: 1, L0803: 1, L0774: 1, L0775: 1, L0523: 1, L0806: 1, L0776: 1, L0809: 1, L0666: 1, H0690: 1, H0683: 1, H0659: 1, H0670: 1, L0749: 1 and L0779: 1.		
HOCOC26	1015143	510	97 - 693	2685	Pro-1 to Ser-9, Glu-48 to Gly-54, Gly-66 to Leu-71, Pro-78 to Glu-84, Ala-108 to Gln-116, Ile-167 to Asp-172,	L0748: 11, L0750: 5, L0740: 4, L0756: 4, L0758: 4, L0769: 3, L0766: 3, L0776: 3, L0779: 3, H0135: 2, L0763: 2, L0770: 2,		

HHEDC05	1015204	511	1035 - 7	2686	Thr-179 to His-185.	L0796: 2, L0768: 2, L0774: 2, L0783: 2, L0809: 2, L0438: 2, H0519: 2, H0672: 2, L0751: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, H0341: 1, S0356: 1, S0442: 1, S0444: 1, S0360: 1, S0046: 1, H0431: 1, T0040: 1, H0599: 1, H0327: 1, H0046: 1, H0024: 1, H0014: 1, H0510: 1, H0688: 1, H0708: 1, H0413: 1, H0131: 1, S0150: 1, S0426: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0650: 1, L0666: 1, S0374: 1, H0684: 1, H0660: 1, S0380: 1, S0406: 1, L0749: 1, L0752: 1, L0753: 1, L0588: 1, L0599: 1, H0543: 1, H0423: 1 and H0422: 1.	Pro-43 to Cys-48, Thr-75 to Gln-82.	H0695: 124, H0542: 48, H0730: 32, H0688: 27, H0735: 25, H0684: 24, H0728: 23, H0687:		

						23, H0744: 19, H0703: 19, H0580: 18, H0717: 17, H0685: 15, H0729: 15, H0722: 15, H0740: 13, H0733: 11, H0521: 9, H0713: 8, H0543: 8, H0494: 7, H0689: 7, H0716: 6, H0741: 6, H0696: 6, H0734: 5, H0739: 4, H0545: 4, H0699: 4, H0725: 4, H0686: 3, H0592: 3, H0587: 3, H0581: 3, H0743: 3, H0726: 3, H0690: 3, H0683: 3, H0732: 3, H0712: 3, H0742: 2, H0544: 2, H0708: 2, H0488: 2, H0724: 2, H0710: 2, H0709: 2, H0555: 2, H0171: 1, H0738: 1, S0282: 1, H0600: 1, H0586: 1, H0318: 1, H0617: 1, S0036: 1, H0561: 1, S0422: 1, S0053: 1, S0216: 1, H0723: 1, H0522: 1, S0146: 1, H0727: 1, S0260: 1 and S0436: 1.		
HODES86	1015304	512	89 - 421	2687		L0753: 3, H0615: 1		

HOPJU57	1015324	513	943 - 1164	2688	Gly-1 to Tyr-6, Lys-10 to Gly-19, Ser-46 to Lys-59.	and H0683: 1.	H0585: 21, L0742: 12, L0747: 9, S0358: 8, H0052: 8, S0126: 8, H0141: 7, H0620: 7, L0748: 7, H0009: 6, H0624: 4, S0408: 4, H0427: 4, H0081: 4, S0051: 4, H0660: 4, L0750: 4, S0444: 3, H0393: 3, H0599: 3, H0618: 3, L0471: 3, H0083: 3, H0617: 3, H0708: 3, H0413: 3, H0494: 3, H0672: 3, L0740: 3, L0751: 3, L0755: 3, H0171: 2, H0294: 2, S0046: 2, H0455: 2, H0333: 2, H0156: 2, H0002: 2, H0097: 2, H0706: 2, S0049: 2, H0024: 2, H0373: 2, H0356: 2, S0364: 2, S0366: 2, H0135: 2, H0412: 2, S0440: 2, L0640: 2, L0766: 2, L0532: 2, L0754: 2, L0757: 2, S0031: 2, L0604: 2, H0506: 2, H0161: 1,		

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HVCAC71	1015343	514	2 - 1204	2689	Pro-13 to Pro-23.	L0807: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, S0330: 1, H0522: 1, H0576: 1, L0612: 1, S3014: 1, S0027: 1, L0744: 1, L0745: 1, L0731: 1, H0445: 1 and S0434: 1.	4q21-q25	104500, 125490, 137600, 147790, 173910, 189800, 217030, 248510, 252500, 252500, 600919, 601542
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HSXCO55	1015360	515	6 - 1076	2690	Val-9 to Gly-18, Pro-21 to Gly-27, Gly-81 to Trp-91, Lys-120 to Gly-126, Ile-166 to Pro-172, Val-185 to Ala-192,	L0749: 14, L0439: 8, L0438: 6, L0748: 4, L0747: 4, L0779: 4, L0769: 3, S0442: 2, S0038: 2, L0764: 2, L0662: 2, L0766: 2,			

					Asp-207 to Ser-212, Ser-241 to Lys-248, Trp-250 to Tyr-258, Gln-287 to Asn-292.	L0659: 2, L0809: 2, L0666: 2, H0144: 2, H0658: 2, L0754: 2, L0750: 2, L0756: 2, L0777: 2, L0780: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0402: 1, S0282: 1, H0645: 1, L0717: 1, H0586: 1, L0586: 1, H0427: 1, S0010: 1, H0046: 1, H0457: 1, H0050: 1, L0471: 1, S0051: 1, T0010: 1, S6028: 1, H0688: 1, H0031: 1, H0169: 1, S0036: 1, H0135: 1, H0494: 1, H0560: 1, S0438: 1, H0207: 1, H0633: 1, H0647: 1, S0142: 1, S0422: 1, L0803: 1, L0804: 1, L0776: 1, L0655: 1, S0148: 1, H0547: 1, S0126: 1, H0683: 1, H0670: 1, H0672: 1, H0539: 1, L0744: 1, L0757: 1, L0758: 1, L0759: 1, L0593: 1, H0543: 1 and H0423: 1.		

HLWDB78	1015430	516	57 - 629	2691	Lys-90 to Arg-96.	L0766: 4, L0748: 4, S0037: 2, L0749: 2, S0360: 1, H0571: 1, S0003: 1, H0553: 1, H0551: 1, S0142: 1, S0002: 1, L0794: 1, L0804: 1, H0519: 1, H0659: 1, H0660: 1, L0754: 1 and H0136: 1.		104500, 125490, 147790, 173910, 252500, 252500
HPCQU04	1015563	517	216 - 1232	2692		H0585: 26, H0141: 12, H0623: 6, L0766: 6, H0013: 5, H0318: 5, H0556: 4, H0657: 4, H0457: 4, L0471: 4, L0776: 4, H0659: 4, S0360: 3, H0599: 3, S0010: 3, S0003: 3, H0634: 3, T0067: 3, H0538: 3, L0598: 3, L0770: 3, L0764: 3, H0144: 3, L0751: 3, L0747: 3, L0757: 3, L0758: 3, H0445: 3, H0542: 3, T0002: 2, S0418: 2, S0376: 2, S0132: 2, S0222: 2, H0497: 2, H0559: 2, H0620: 2, H0083: 2, H0428: 2, H0124: 2, H0068: 2, H0090: 2,	4q21	

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HDPAT52	1015574	518	1387 - 335	2693	Pro-11 to Gly-18, Glu-24 to Cys-32, Glu-34 to Met-47, Ala-55 to Glu-60, Ile-75 to Gln-81, Ser-132 to Thr-139,	L0599: 2, H0253: 1, H0581: 1, H0263: 1, H0200: 1, H0040: 1, H0623: 1, H0280: 1, H0593: 1, H0521: 1 and H0555: 1.		

						Gln-167 to Gln-180, Leu-183 to Phe-195, Gln-211 to Gln-223, Gln-232 to Leu-244, Gln-253 to Ala-269, Pro-274 to Leu-292, Thr-302 to Thr-330.			
HAOSL81	1015620	519	28 - 747	2694	Asp-1 to Lys-6, Gln-29 to Gly-35, Pro-39 to Arg-49, Pro-51 to Trp-58, Ser-78 to Gly-83, Ser-179 to His-194.	H0124: 11, L0751: 5, L0747: 4, H0295: 3, H0620: 3, L0794: 3, L0741: 3, L0758: 3, H0686: 2, H0549: 2, H0617: 2, L0768: 2, L0766: 2, L0774: 2, L0745: 2, L0731: 2, H0656: 1, S0420: 1, S0444: 1, S0360: 1, S0408: 1, S0222: 1, H0486: 1, H0013: 1, L0021: 1, H0052: 1, H0327: 1, H0009: 1, T0010: 1, H0033: 1, H0604: 1, H0031: 1, H0068: 1, H0038: 1, H0100: 1, H0509: 1, L0769: 1, L0761: 1, L0804: 1, L0775: 1, L0636: 1, L0809: 1, L0792: 1, L4501: 1, L0665: 1, L0438: 1,			

						H0684: 1, H0660: 1, H0539: 1, H0555: 1, L0742: 1, L0786: 1, H0668: 1 and S0424: 1.		
HMWIU46	1015814	520	1 - 1152	2695	Gly-4 to Gln-11, Val-87 to Asn-97, Gly-168 to Leu-178, Asp-194 to Phe-200, Phe-205 to Arg-210, Gln-292 to Gly-306, Gly-328 to Ser-342, Gly-349 to Asp-358, His-365 to Asp-379.		20q11.21-q11.23	
HSXCQ19	1015994	521	3 - 1100	2696	Gly-5 to Ala-25, Pro-28 to Leu-43, Pro-45 to Glu-57, Pro-64 to Trp-70, Gly-76 to Ala-90, Gly-99 to Gly-106.	L0809: 7, L0758: 7, S0007: 4, L0662: 4, L0794: 4, L0665: 4, L0439: 4, L0754: 4, H0333: 3, L0769: 3, L0761: 3, L0803: 3, H0395: 2, S0222: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0485: 2, H0716: 1, H0295: 1, H0402: 1, S0418: 1, S0442: 1, H0619: 1, H0586: 1, L0623: 1, H0486: 1, S0280: 1, L0021: 1, H0618: 1,		

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HE2KN09	1016351	523	3 - 656	2698	AR052: 27, AR033: 27, AR039: 25, AR053: 24, AR055: 19, AR089: 19, AR096: 19, AR104: 17, AR060: 14, AR061: 12 L0776: 4, L0783: 4, H0624: 3, H0559: 3, H0620: 3, H0615: 3, H0100: 3, L0769: 3, L0766: 3, L0755: 3, H0619: 2, H0081: 2, H0604: 2, L0775: 2, L0375: 2, L0659: 2, L0809: 2, H0670: 2, H0672: 2, H0539: 2, L0777: 2, L0759: 2, T0002: 1, H0295: 1, T0049: 1, H0657: 1, H0381: 1, H0661: 1, H0662: 1, S0442: 1, S0376: 1, S0360: 1, S0408: 1, H0550: 1,		

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HSPSB62	1016768	525	148 - 990	2700	Leu-36 to Glu-41,	S0276: 7, H0543: 6,		

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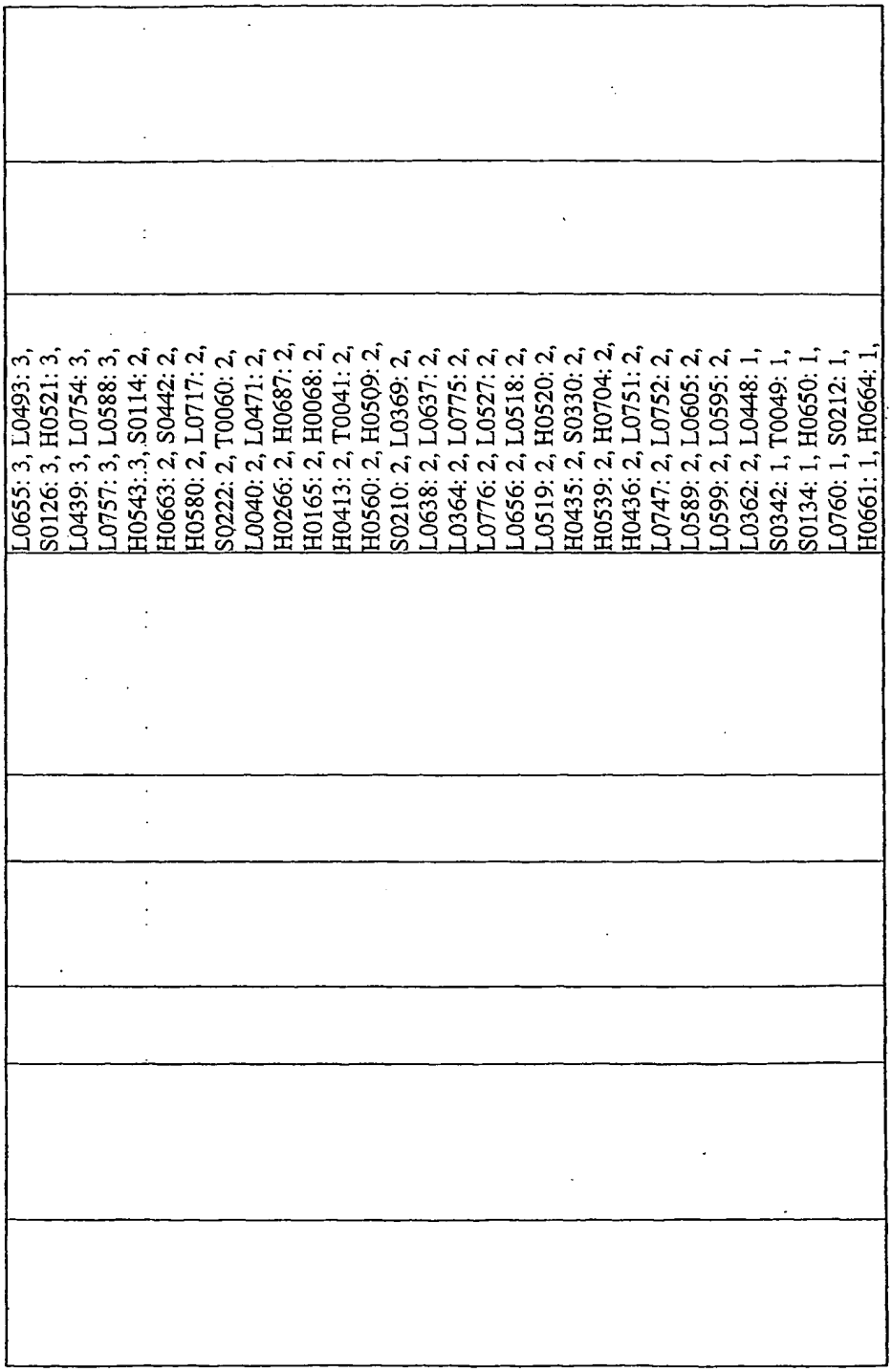
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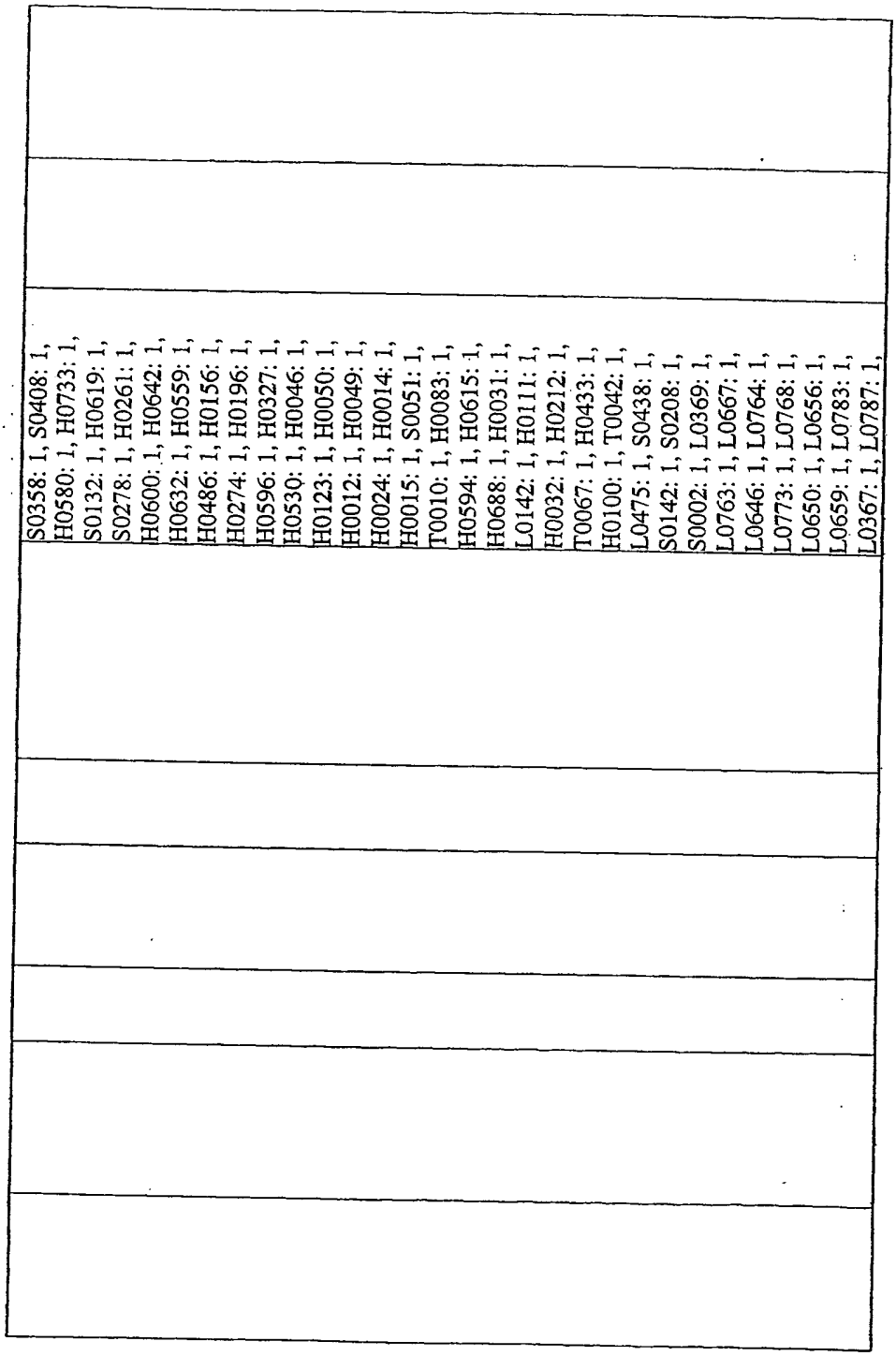

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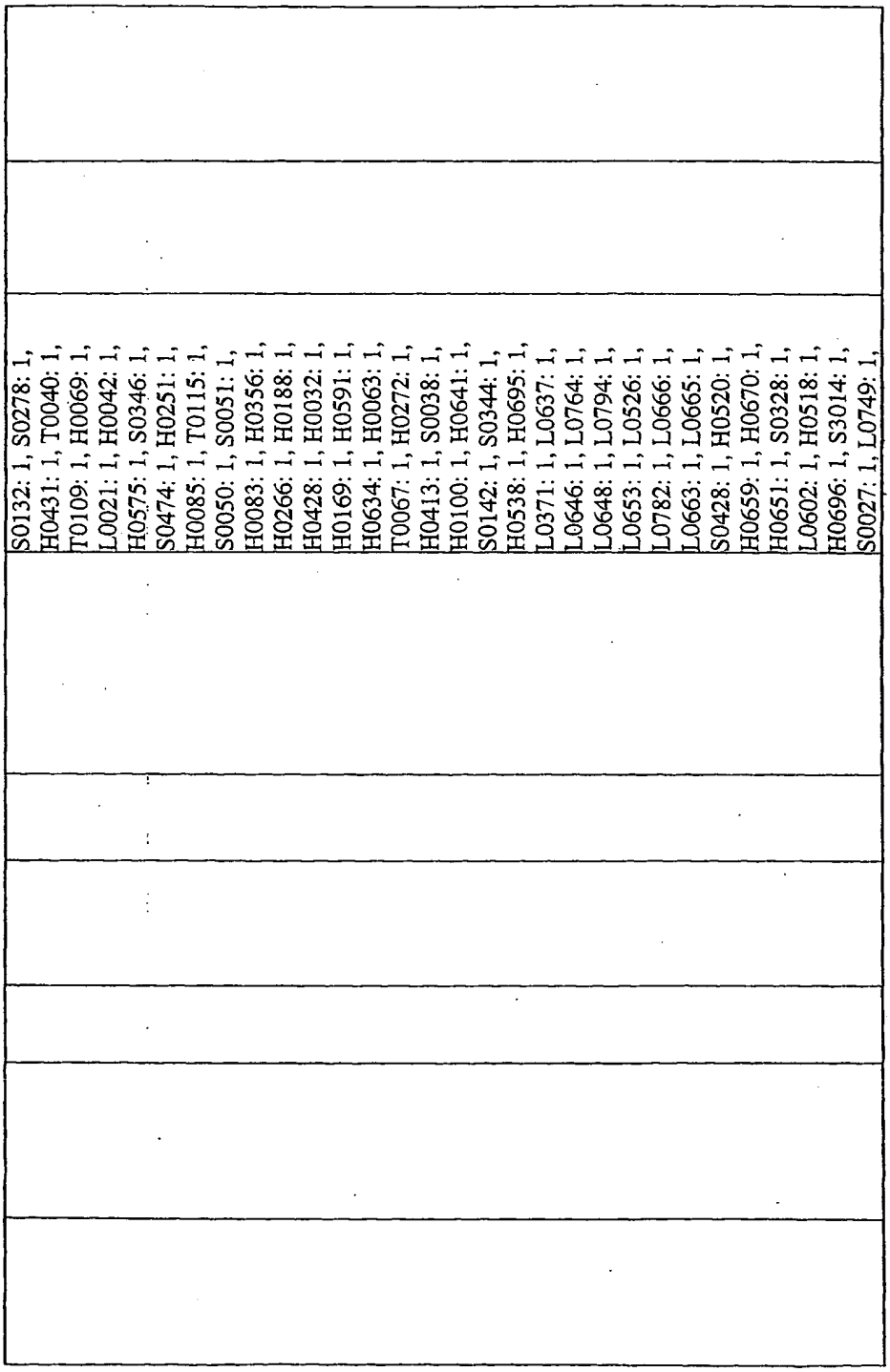
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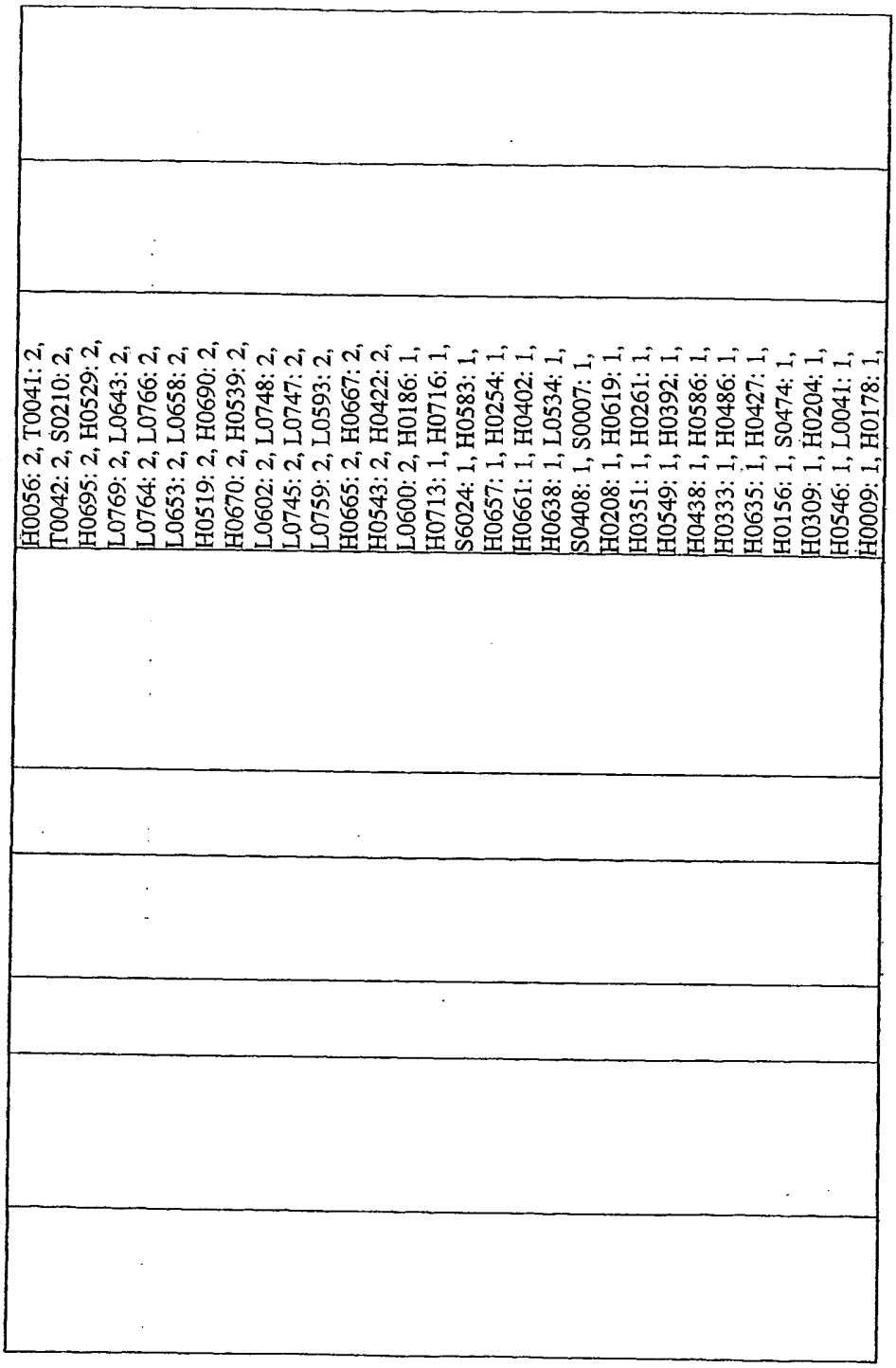
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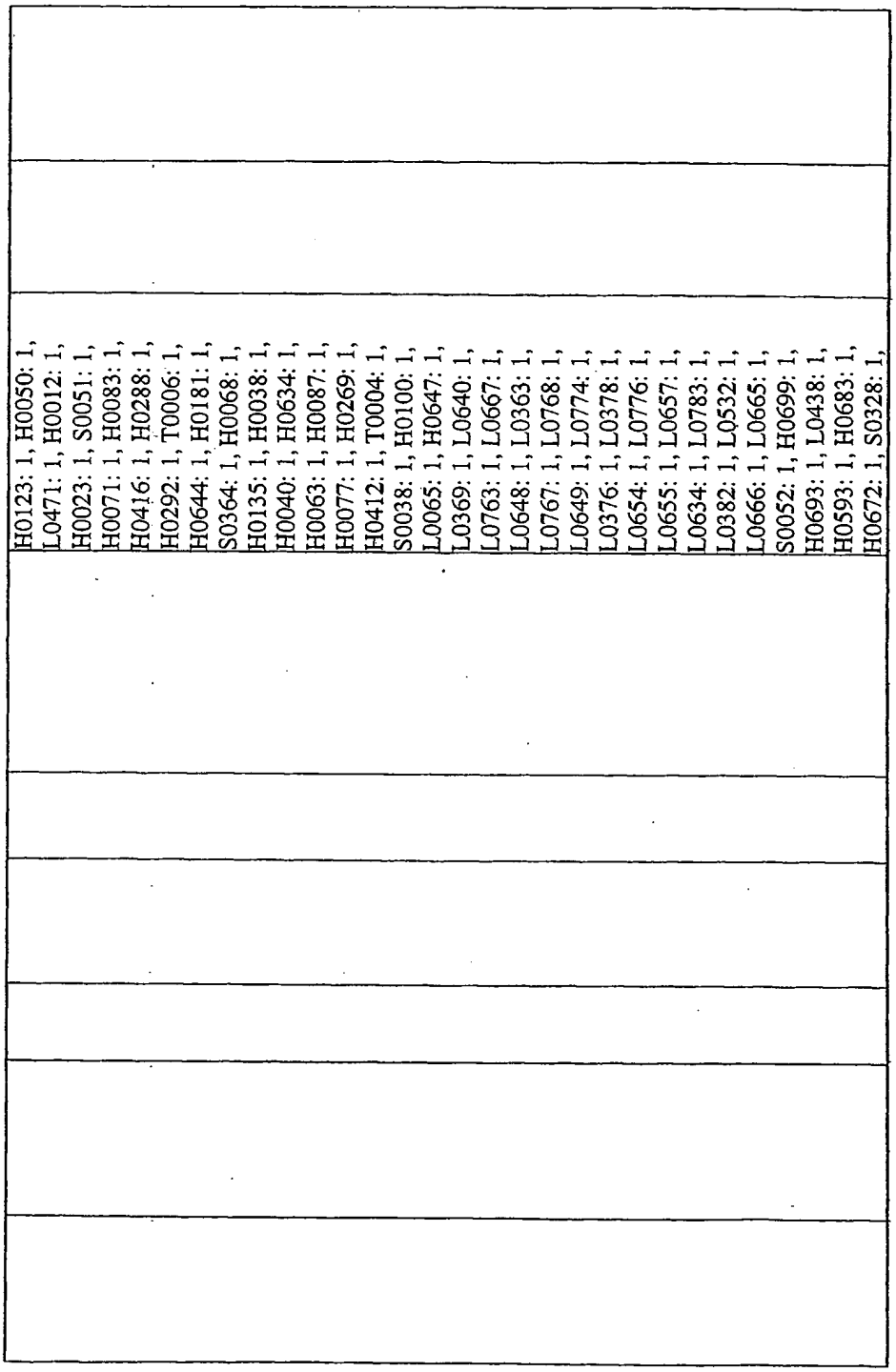
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HVVDH50	1018226	538	2344 - 1004	2713	Pro-18 to Ser-40, Pro-81 to Pro-95, Pro-111 to Phe-118, Gly-127 to Ala-132, Pro-143 to Phe-151, Pro-164 to Pro-174, Pro-180 to Lys-187, Met-205 to Phe-211, Phe-228 to Pro-236, Pro-245 to Pro-255, Ala-263 to His-270, Gln-272 to Gln-280, Asn-296 to Ala-304, Gly-333 to Gly-344,	L0751: 17, L0731: 11, S0344: 9, S0126: 9, L0743: 9, L0595: 9, S0046: 8, S0002: 8, H0521: 8, L0744: 8, S0278: 7, S0037: 7, L0750: 7, S0420: 6, H0618: 6, H0024: 6, H0188: 6, H0622: 6, S3014: 6, L0439: 6, H0550: 5, H0620: 5, H0551: 5, H0623: 5, L0659: 5, H0255: 4, S0418: 4, H0052: 4,	L0793: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0672: 1, H0651: 1, S0378: 1, S0152: 1, S0350: 1, H0522: 1, S0013: 1, H0704: 1, H0576: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0755: 1, H0595: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, L0600: 1, H0008: 1 and H0352: 1.	7q32	180105, 190900, 222800, 246900

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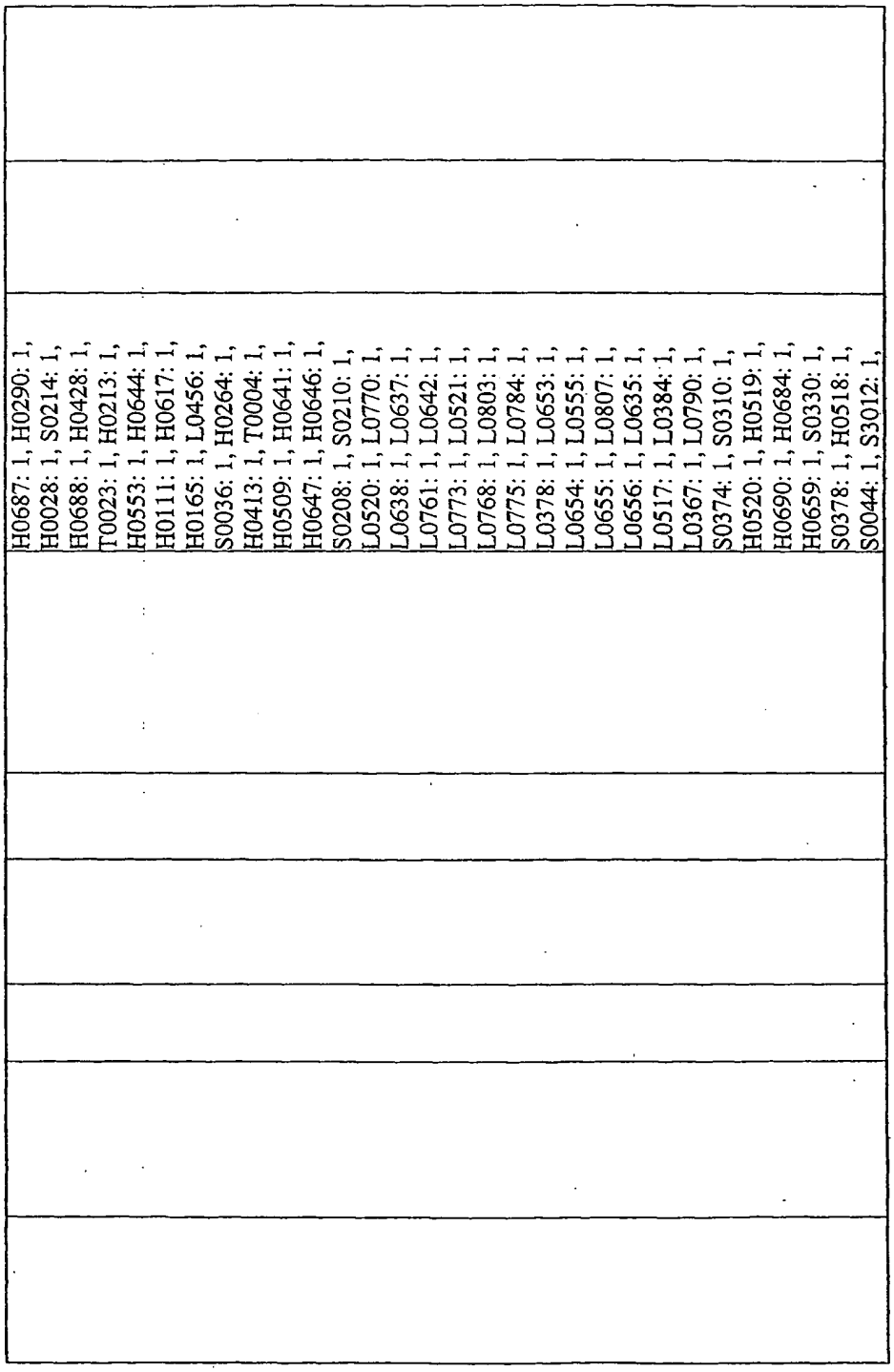
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HCHMD81	1019326	546	1 - 1005	2721	Ala-4 to Ala-11.	L0758: 9, L0770: 7, H0620: 6, L0731: 6, L0747: 5, L0777: 5, H0265: 4, L0771: 4, L0748: 4, L0759: 4, L0769: 3, L0662: 3, L0774: 3, L0526: 3, L0439: 3, L0751: 3, L0750: 3, S0358: 2, H0424: 2, S0144: 2, L0520: 2, L0764: 2, L0364: 2, L0776: 2, L0809: 2, L0664: 2, L0754: 2, S0436: 2, L0588: 2, L0601: 2, H0556: 1, H0685: 1, S0040: 1, S6024: 1, H0341: 1, H0484: 1, H0661: 1, H0306: 1,		

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HAZAR95	1019338	547	11 - 1192	2722	Arg-63 to Arg-77, Glu-186 to Trp-192, Ile-222 to Tyr-228, Lys-284 to Glu-293, Asn-324 to Ser-329, Pro-375 to Lys-388.	L0666: 13, L0665: 13, L0588: 12, L0601: 9, S0358: 8, L0664: 8, S0360: 7, L0471: 7, L0657: 7, L0659: 7, L0748: 7, H0415: 6, S0214: 6, L0520: 6, L0372: 6, L0803: 6, L0375: 6, L0655: 6, H0659: 6, L0608: 6, L0362: 6, L0361: 6, S0376: 5, L0663: 5, L0439: 5, T0049: 4, H0581: 4, L0646: 4, L0804: 4, L0809: 4, S0328: 4, L0747: 4, L0749: 4, L0755: 4, L0731: 4, L0591: 4, L0604: 4, L0595: 4, H0542: 4, H0662: 3, H0545: 3, H0687: 3, H0100: 3, H0509: 3, H0529: 3, L0763: 3, L0764: 3, L0662: 3, L0794: 3, S0330: 3, L0740: 3, H0445: 3, L0600: 3, H0265: 2, H0661: 2, S0418: 2, H0156: 2, H0318: 2, H0172: 2, H0620: 2,	12q23	124200, 147440, 160781, 235800, 600175

		H0051: 2, T0010: 2, H0510: 2, T0006: 2, H0617: 2, H0674: 2, H0413: 2, S0344: 2, L0598: 2, L0369: 2, L0637: 2, L0648: 2, L0626: 2, L0363: 2, L0768: 2, L0775: 2, L0651: 2, L0378: 2, L0383: 2, S0122: 2, H0690: 2, H0670: 2, H0648: 2, S0380: 2, H0626: 2, L0744: 2, L0777: 2, L0752: 2, L0757: 2, L0758: 2, L0596: 2, L0592: 2, L0593: 2, H0665: 2, H0543: 2, S0424: 2, H0170: 1, H0686: 1, H0685: 1, S0342: 1, S0134: 1, H0657: 1, H0341: 1, H0663: 1, H0306: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1, S0408: 1, S0468: 1, S0045: 1, H0411: 1, S0278: 1, H0370: 1, H0392: 1, H0587: 1, L0622: 1, H0486: 1, T0039: 1,					

		T0060: 1, H0427: 1, H0599: 1, H0004: 1, S0346: 1, H0196: 1, H0052: 1, H0263: 1, H0544: 1, T0003: 1, H0083: 1, H0629: 1, S6028: 1, H0188: 1, S0003: 1, H0428: 1, H0039: 1, H0030: 1, H0553: 1, H0165: 1, H0169: 1, S0036: 1, H0135: 1, H0551: 1, H0264: 1, H0412: 1, T0069: 1, L0475: 1, S0370: 1, L0065: 1, S0438: 1, H0647: 1, H0649: 1, S0422: 1, S0426: 1, L0762: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0641: 1, L0642: 1, L0773: 1, L0521: 1, L0387: 1, L0766: 1, L0649: 1, L0774: 1, L0807: 1, L0517: 1, L0540: 1, L0526: 1, L0384: 1, L0382: 1, L0530: 1, L0647: 1, L0787: 1, L0532: 1, S0374: 1,			

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HMWFS51	1019409	548	65 - 484	2723	L0776: 3, H0341: 2, L0005: 2, T0023: 2, L0766: 2, L0527: 2, L0659: 2, L0809: 2, L0665: 2, L0748: 2, L0740: 2, L0747: 2, L0731: 2, L0362: 2, S0114: 1, H0305: 1, S0376: 1, H0393: 1, H0574: 1, H0013: 1, H0263: 1, H0266: 1, H0688: 1, L0483: 1,		

						H0030: 1, H0674: 1, H0647: 1, L0763: 1, L0646: 1, L0374: 1, L0662: 1, L0768: 1, L0774: 1, L0663: 1, L0438: 1, H0520: 1, H0658: 1, S0328: 1, H0478: 1, L0745: 1, L0758: 1, H0445: 1 and L0599: 1.		
HE8SD82	1019585	549	1 - 570	2724	Asn-1 to Pro-7, Glu-33 to Ser-40, Pro-54 to Thr-63, Leu-82 to Arg-106, Gly-109 to Asn-119, Glu-145 to Val-150, Lys-161 to Gln-168, Arg-170 to Phe-175, Thr-177 to Tyr-184.	H0031: 4, S0007: 2, H0244: 2, S0010: 2, H0194: 2, H0553: 2, S0036: 2, H0040: 2, H0529: 2, L0005: 1, S0356: 1, H0676: 1, H0411: 1, S0222: 1, S6014: 1, H0587: 1, H0497: 1, H0013: 1, H0575: 1, H0327: 1, L0471: 1, H0024: 1, L0143: 1, H0038: 1, H0494: 1, H0538: 1, H0660: 1, H0539: 1, H0521: 1, H0555: 1 and H0136: 1.			
HSPSN08	1019608	550	77 - 1120	2725	Pro-25 to Glu-54, Ser-66 to Glu-71, Gly-86 to Trp-92, Arg-104 to Asn-109,	H0683: 11, H0617: 3, L0766: 2, H0686: 1, H0254: 1, H0255: 1, L0021: 1, H0123: 1,		

					Asn-133 to Asn-138, Thr-153 to Ser-160, Asn-269 to Glu-277, Leu-290 to Tyr-297.	H0012: 1, S0051: 1, H0083: 1, H0039: 1, T0006: 1, H0413: 1, L0794: 1, L0809: 1, L0748: 1 and S0026: 1.		
HVCAH24	1019749	551	97 - 468	2726	Arg-1 to Arg-8, Gly-30 to Gln-40, Phe-50 to Asp-58, Leu-97 to Ser-112.	H0156: 2, H0624: 1, H0171: 1, H0686: 1, H0656: 1, H0574: 1, H0486: 1, S0316: 1, H0622: 1, H0038: 1, S0150: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0521: 1 and S0028: 1.		
HCEBF54	1019777	552	400 - 840	2727	Pro-89 to Leu-101.	AR104: 2, AR061: 1, AR089: 1, AR033: 0, AR060: 0, AR096: 0, AR053: 0, AR039: 0, AR055: 0, AR052: 0 L0794: 2, L0803: 2, L0655: 2, L0665: 2, H0684: 2, L0754: 2, L0747: 2, H0686: 1, L0470: 1, H0662: 1, H0125: 1, S0360: 1, L0021: 1, H0052: 1, H0085: 1, H0597: 1, H0009: 1, S0362: 1, H0644: 1, H0673: 1, L0060: 1, H0560: 1,		

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				2728			
			176 - 271				
		553					
	1019869						
HPQAD21							

		H0592: 2, H0574: 2, H0575: 2, H0051: 2, S0022: 2, H0615: 2, H0032: 2, S0438: 2, S0440: 2, L0598: 2, L0769: 2, L0774: 2, L0776: 2, L0659: 2, L0518: 2, L0663: 2, H0726: 2, S0126: 2, H0539: 2, H0696: 2, H0555: 2, L0740: 2, L0747: 2, L0753: 2, L0593: 2, H0686: 1, S0212: 1, H0484: 1, H0671: 1, H0662: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1, S0476: 1, H0645: 1, S0222: 1, H0441: 1, H0586: 1, H0587: 1, H0333: 1, H0632: 1, H0013: 1, S0280: 1, L0021: 1, H0599: 1, H0590: 1, H0309: 1, L0040: 1, H0544: 1, H0545: 1, H0019: 1, S0051: 1, H0275: 1, H0375: 1, S6028: 1, S0250: 1, H0328: 1, H0428: 1, H0031: 1,				

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HJPCF71	1019892	554	219 - 830	2729	Asp-41 to Gly-56.		L0439: 4, L0777: 4, S0214: 3, L0752: 3, H0686: 2, H0486: 2, L0775: 2, L0651: 2,	

					L0750: 2, S0114: 1, H0656: 1, S0212: 1, H0663: 1, H0586: 1, H0546: 1, H0024: 1, H0083: 1, H0510: 1, H0428: 1, H0038: 1, H0560: 1, H0646: 1, L0763: 1, L0773: 1, L0662: 1, L0774: 1, L0378: 1, L0661: 1, L0384: 1, L0789: 1, L0666: 1, L0438: 1, S0028: 1, L0747: 1, L0756: 1, L0758: 1, H0423: 1 and S0460: 1.	
			2730			
			99 - 2111			
			555			
			1019942			
			HVCAE76			

						H0351: 1, H0411: 1, H0550: 1, H0333: 1, S0280: 1, H0098: 1, H0122: 1, H0318: 1, H0263: 1, H0581: 1, H0457: 1, H0566: 1, H0050: 1, S0050: 1, H0051: 1, H0188: 1, H0687: 1, H0615: 1, H0039: 1, L0055: 1, H0598: 1, H0040: 1, S0440: 1, H0529: 1, L0761: 1, L0667: 1, L0363: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0661: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, L0352: 1, H0547: 1, H0690: 1, H0666: 1, H0648: 1, H0555: 1, H0436: 1, S0390: 1, S0028: 1, L0744: 1, L0740: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0031: 1 and L0605: 1.			
					2731	His-3 to Trp-8, Glu-16 to Gly-23, Tyr-47 to Gly-56,	H0457: 7, L0743: 5, L0439: 5, L0751: 5, L0752: 5, L0731: 4,	
				1 - 1485				
			556					
		1020007						
HOCMH14								

					Ala-88 to Cys-93, Ala-108 to Ser-139, Ser-145 to Ser-151, Asp-154 to Ala-164, Pro-168 to Thr-189, Pro-196 to Ser-203, Pro-229 to Ala-235, Thr-255 to Glu-261, Pro-271 to Pro-276, Pro-289 to Asn-310, Pro-318 to Tyr-329, Arg-334 to Arg-345, Arg-347 to Thr-356, Lys-373 to Arg-391, Glu-396 to Pro-414.	H0618: 3, H0253: 3, H0545: 3, L0662: 3, H0689: 3, L0748: 3, L0777: 3, L0758: 3, L0785: 2, H0692: 2, H0662: 2, H0550: 2, S0049: 2, L0770: 2, L0764: 2, L0659: 2, H0670: 2, L0779: 2, L0757: 2, L0759: 2, S0434: 2, H0225: 1, S0218: 1, H0650: 1, H0656: 1, L0426: 1, S0212: 1, S0442: 1, H0489: 1, H0580: 1, S0046: 1, S0132: 1, S0476: 1, H0549: 1, H0587: 1, H0333: 1, H0559: 1, H0427: 1, L0021: 1, H0599: 1, H0274: 1, H0581: 1, H0421: 1, H0052: 1, H0231: 1, L0157: 1, H0566: 1, H0123: 1, T0010: 1, H0408: 1, H0355: 1, H0266: 1, H0271: 1, H0687: 1, H0163: 1, H0087: 1, H0494: 1, H0359: 1, S0344: 1, L0371: 1,

						L0637: 1, L0761: 1, L0646: 1, L0773: 1, L0363: 1, L0774: 1, L0375: 1, L0805: 1, L0658: 1, L0384: 1, L0543: 1, L0666: 1, L0663: 1, H0547: 1, H0593: 1, H0684: 1, H0660: 1, S0380: 1, H0710: 1, S0152: 1, H0521: 1, H0696: 1, H0134: 1, S0406: 1, H0436: 1, S0432: 1, L0744: 1, L0740: 1, S0436: 1, L0593: 1, H0665: 1 and H0422: 1.		
HPDRZ03	1020130	557	122 - 751	2732	Asp-7 to Ala-15, Pro-34 to Ile-60, Gln-110 to Asn-117.	L0777: 4, S0358: 3, H0486: 3, L0750: 3, L0779: 3, L0752: 3, S0412: 3, S0134: 2, H0013: 2, L0766: 2, L0803: 2, H0519: 2, H0658: 2, L0599: 2, L0604: 2, S0192: 2, T0002: 1, S0342: 1, S0212: 1, H0661: 1, H0619: 1, H0411: 1, H0632: 1, T0114: 1, H0575: 1, H0318: 1, T0110: 1, H0544: 1,		

					H0457: 1, H0328: 1, L0055: 1, H0169: 1, T0067: 1, S0422: 1, L0763: 1, L0773: 1, L0363: 1, L0804: 1, L0806: 1, L0663: 1, H0648: 1, S0152: 1, L0751: 1, L0756: 1, L0755: 1, L0731: 1, L0758: 1, L0593: 1, L0594: 1, H0665: 1, H0543: 1 and S0424: 1.		
HOCPO73	1020180	558	3745 - 2963	2733	L0777: 7, L0759: 5, L0638: 3, L0766: 3, L0804: 3, L0663: 3, L0439: 3, H0657: 2, L0055: 2, L0666: 2, H0660: 2, L0604: 2, L0615: 1, S0358: 1, L0471: 1, H0628: 1, H0038: 1, S0344: 1, H0529: 1, L0761: 1, L0630: 1, L0646: 1, L0764: 1, L0364: 1, L0803: 1, L0805: 1, L0655: 1, L0809: 1, L0790: 1, L0532: 1, H0689: 1, H0435: 1, H0658: 1, S0330: 1, H0521: 1, H0436: 1,		

HNKDT10	1020832	559	2 - 535	2734	S0330: 109, S0328: 51, S0446: 12, L0659: 5, L0666: 4, L0779: 4, S0456: 4, L0717: 3, L0775: 3, H0593: 3, L0748: 3, L0439: 3, L0747: 3, L0749: 3, L0758: 3, L0021: 2, H0615: 2, L0662: 2, L0766: 2, L0803: 2, L0663: 2, L0665: 2, S0310: 2, H0658: 2, H0648: 2, S0406: 2, L0740: 2, L0731: 2, L0595: 2, H0624: 1, H0662: 1, S0376: 1, H0351: 1, H0411: 1, H0587: 1, L0022: 1, L0105: 1, H0688: 1, H0617: 1, L0455: 1, H0494: 1, S0352: 1, S0464: 1, S0440: 1, S0422: 1, L0772: 1, L0646: 1, L0771: 1, L0773: 1, L0649: 1, L5569: 1, L0499: 1,	L0740: 1, L0749: 1, L0750: 1, L0757: 1, L0594: 1, L0595: 1 and S0026: 1.		

						L0375: 1, L0651: 1, L0784: 1, L0806: 1, L0509: 1, L0655: 1, L0657: 1, L0513: 1, L0809: 1, L0545: 1, L0790: 1, L0791: 1, L0792: 1, L0664: 1, H0144: 1, H0519: 1, S0126: 1, S0404: 1, H0555: 1, L0751: 1, L0777: 1, S0436: 1 and L0592: 1.		
HWHGO25	1020841	560	3 - 113	2735	Gly-7 to Leu-15, Pro-17 to His-29.	L0747: 5, L0805: 3, L0761: 2, L0803: 2, L0775: 2, H0658: 2, L0758: 2, S0298: 1, H0586: 1, H0597: 1, L0646: 1, L0776: 1, L0518: 1, L0519: 1, L0528: 1, L0529: 1, L0790: 1, L0666: 1, H0690: 1, H0521: 1, L0749: 1 and L0777: 1.		
HWMNE31	1020852	561	157 - 681	2736	Thr-15 to Trp-23, Ala-44 to Gln-51, Lys-62 to Arg-70, Asp-102 to Lys-114, Val-116 to Ala-148, Phe-151 to Glu-163.	L0803: 13, L0766: 10, L0731: 8, L0751: 6, L0601: 6, L0756: 5, L0764: 4, L0789: 4, S0136: 4, H0436: 4, L0777: 4, L0596: 4, H0556: 3, H0580: 3,		

		H0328: 3, H0615: 3, H0090: 3, L0775: 3, L0666: 3, L0747: 3, L0755: 3, L0758: 3, S0412: 3, H0341: 2, S0376: 2, H0393: 2, H0549: 2, H0431: 2, H0587: 2, H0013: 2, L0021: 2, H0597: 2, H0014: 2, H0644: 2, L0800: 2, L0773: 2, L0662: 2, L0784: 2, L0805: 2, L0438: 2, H0520: 2, H0648: 2, L0748: 2, L0439: 2, L0740: 2, L0604: 2, H0265: 1, H0685: 1, S0114: 1, H0657: 1, H0656: 1, H0661: 1, H0663: 1, H0402: 1, S0358: 1, S0444: 1, S0360: 1, S0045: 1, H0351: 1, L0394: 1, S0222: 1, H0333: 1, H0575: 1, H0318: 1, H0421: 1, H0052: 1, T0103: 1, H0570: 1, H0024: 1, H0083: 1, H0067: 1, H0188: 1, S0003: 1, S0214: 1,				

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HUSYJ75	1020878	562	1 - 420	2737		H0484: 35, L0751: 15, L0758: 12, H0483: 10,	

		L0743: 9, H0370: 8, S0442: 7, S0126: 7, S0436: 7, S0420: 6, L0766: 6, H0670: 6, H0672: 6, L0744: 6, L0779: 6, S0434: 6, H0661: 5, S0476: 5, H0617: 5, H0660: 5, S0027: 5, L0747: 5, L0592: 5, S0040: 4, H0716: 4, H0662: 4, S0140: 4, H0545: 4, H0150: 4, S0440: 4, H0641: 4, H0689: 4, H0682: 4, H0684: 4, S0380: 4, S0406: 4, S3014: 4, S0356: 3, H0729: 3, H0733: 3, S0007: 3, H0639: 3, H0123: 3, H0424: 3, S0366: 3, H0087: 3, H0647: 3, L0769: 3, L0775: 3, H0690: 3, H0696: 3, S3012: 3, L0740: 3, H0543: 3, L0600: 3, H0713: 2, H0663: 2, S0376: 2, S0444: 2, S0408: 2, S0046: 2, H0619: 2, S0300: 2, S0278: 2,				

H0592: 2, H0052: 2, L0157: 2, H0688: 2, H0606: 2, H0674: 2, H0059: 2, H0100: 2, L0763: 2, L0771: 2, L0649: 2, L0633: 2, L0383: 2, H0520: 2, H0435: 2, H0658: 2, H0648: 2, H0436: 2, S0390: 2, L0748: 2, L0777: 2, L0731: 2, L0757: 2, L0759: 2, S0260: 2, H0686: 1, S6024: 1, H0294: 1, S0134: 1, H0657: 1, H0656: 1, S0180: 1, S0212: 1, H0254: 1, S0418: 1, S0354: 1, S0410: 1, H0722: 1, S0045: 1, S0132: 1, H0393: 1, H0550: 1, H0587: 1, H0333: 1, T0109: 1, H0101: 1, H0427: 1, H0575: 1, H0706: 1, T0048: 1, S0474: 1, H0581: 1, S0049: 1, H0309: 1, H0597: 1, H0231: 1, H0009: 1, H0178: 1, H0567: 1, H0024: 1,								

HSDFS07	1020904	563	2 - 1018	2738	Glu-1 to Asn-6, Glu-14 to Leu-19, Pro-22 to Ile-30, Ser-32 to Asp-40,	H0051: 1, H0099: 1, H0594: 1, H0188: 1, S0214: 1, H0604: 1, H0417: 1, H0181: 1, H0673: 1, H0551: 1, H0412: 1, H0413: 1, H0494: 1, H0334: 1, S0150: 1, S0426: 1, H0529: 1, L0373: 1, L0374: 1, L0764: 1, L0385: 1, L0774: 1, L0375: 1, L0654: 1, L0657: 1, L0659: 1, L5623: 1, L0368: 1, L0665: 1, H0702: 1, H0519: 1, H0683: 1, S0328: 1, S0330: 1, H0539: 1, S0378: 1, H0522: 1, S0037: 1, S0028: 1, S0206: 1, L0754: 1, L0750: 1, H0445: 1, H0595: 1, L0591: 1, L0361: 1, L0601: 1, S0192: 1, H0542: 1, H0423: 1 and S0456: 1.	L0439: 5, L0777: 4, H0244: 2, S0010: 2, S0386: 2, L0764: 2, L0776: 2, L0809: 2,		

					Ser-44 to Gln-53.	H0519: 2, L0756: 2, L0780: 2, H0369: 1, S0222: 1, S0346: 1, H0050: 1, H0428: 1, L0194: 1, L0455: 1, H0494: 1, L0769: 1, L0806: 1, L0807: 1, L0664: 1, H0520: 1, L0747: 1, L0779: 1, L0759: 1, S0031: 1 and L0592: 1.		
HCOPC09	1021208	564	620 - 378	2739	Glu-49 to Asn-62.	L0764: 3, S0360: 2, H0331: 2, H0575: 2, L0769: 2, H0670: 2, L0747: 2, L0777: 2, L0601: 2, S0358: 1, H0455: 1, H0492: 1, L0021: 1, L0763: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0809: 1, H0683: 1, H0522: 1, L0743: 1, L0362: 1 and H0422: 1.		
HVVBT22	1021323	565	811 - 2	2740	Pro-5 to Lys-15, Asn-31 to Ala-38, Asp-57 to Arg-64, Ala-75 to Asp-90, Gln-98 to Gly-123, Arg-125 to Gly-142, Met-155 to Gly-160,	H0424: 5, L0766: 3, S0222: 2, S0214: 2, S0422: 2, S0126: 2, S0330: 2, L0759: 2, L0362: 2, L0361: 2, H0653: 2, H0220: 1, H0656: 1, H0341: 1,		

					Leu-162 to Pro-182, Arg-187 to Met-192, Ser-199 to Asp-219, Pro-224 to Pro-253.	H0449: 1, S0376: 1, S0045: 1, H0351: 1, H0587: 1, H0497: 1, S0010: 1, L0471: 1, H0373: 1, H0083: 1, H0266: 1, L0055: 1, H0163: 1, H0591: 1, H0551: 1, H0366: 1, H0509: 1, H0538: 1, L0770: 1, L0772: 1, L0381: 1, L0775: 1, L0653: 1, L0518: 1, L0665: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, H0672: 1, S0328: 1, H0539: 1, H0696: 1, L0747: 1, L0752: 1, L0591: 1, L0592: 1, H0216: 1 and S0396: 1.		
HAMFW66	1021327	566	8 - 988	2741	His-3 to Phe-9, Asn-176 to Thr-184, Glu-217 to Lys-225, Lys-263 to Asp-268.	AR053: 3, AR052: 3, AR096: 2, AR033: 2, AR089: 2, AR055: 2, AR104: 1, AR060: 1, AR061: 0, AR039: 0 L0754: 12, S0410: 10, L0766: 9, L0591: 7, L0748: 4, L0752: 4, H0423: 4, H0556: 3, S0360: 3, L0646: 3,		

		L0527: 3, L0596: 3, H0170: 2, H0265: 2, S0114: 2, S0218: 2, H0266: 2, H0615: 2, H0056: 2, H0560: 2, H0561: 2, L0803: 2, L0782: 2, H0547: 2, H0134: 2, H0436: 2, L0756: 2, H0445: 2, L0362: 2, H0543: 2, L0002: 1, H0650: 1, S0418: 1, H0208: 1, S0046: 1, S0476: 1, H0619: 1, H0437: 1, H0550: 1, T0114: 1, H0013: 1, T0048: 1, H0318: 1, L0109: 1, H0050: 1, L0471: 1, S0051: 1, H0083: 1, H0328: 1, H0622: 1, H0604: 1, H0031: 1, H0591: 1, H0551: 1, H0268: 1, H0623: 1, H0100: 1, H0132: 1, L0763: 1, L0667: 1, L0388: 1, L0804: 1, L0776: 1, L0606: 1, L0657: 1, L0659: 1, L0542: 1, L0518: 1, L0809: 1, L0791: 1,				

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HPMBW86	1021661	567	3 - 179	2742	Leu-2 to Gly-15, Val-31 to Gly-40, Gly-45 to Ala-51.	H0341: 1, S0222: 1, H0156: 1, H0052: 1, H0031: 1, L0766: 1, H0658: 1, H0670: 1 and L0612: 1.		
HOFMK02	1021666	568	138 - 230	2743	Thr-24 to Leu-29.	H0415: 2 and H0486: 1.	11p15	108985, 186921, 602092
HOUHK71	1021682	569	311 - 370	2744	Arg-11 to Trp-20.	L0755: 4, H0638: 2, S0342: 1, H0101: 1, H0457: 1, H0051: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0518: 1, H0689: 1, H0648: 1, L0756: 1 and L0759: 1.		
HCOOW23	1021759	570	54 - 800	2745	Thr-10 to Arg-16, Arg-21 to Ser-31, Asn-97 to Arg-102, Ile-170 to Ser-175, Thr-207 to Gly-213.			
HACMT02	1021794	571	272 - 3	2746		H0685: 2		

HISDS67	1022018	572	2322 - 1756	2747	Gln-4 to Ala-17, Ala-56 to Gln-61, Cys-166 to Ala-182.	L0754: 8, H0553: 4, L0770: 4, L0794: 4, H0615: 3, L0769: 3, L0803: 3, L0439: 3, L0777: 3, L0752: 3, H0052: 2, L0637: 2, L0768: 2, L0805: 2, L0659: 2, L0666: 2, L0664: 2, H0547: 2, H0593: 2, H0682: 2, H0539: 2, H0521: 2, L0744: 2, L0757: 2, L0604: 2, L0601: 2, H0624: 1, H0657: 1, H0656: 1, S0212: 1, H0254: 1, H0662: 1, L0005: 1, S0045: 1, H0619: 1, H0550: 1, H0592: 1, H0013: 1, H0036: 1, H0618: 1, H0620: 1, H0023: 1, S0051: 1, H0188: 1, H0028: 1, H0428: 1, T0006: 1, H0213: 1, L0455: 1, H0135: 1, H0038: 1, H0616: 1, H0264: 1, H0413: 1, T0069: 1, S0038: 1, H0100: 1, L0763: 1, L0638: 1, L5565: 1,		

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HOVAA59	1022037	573	2892 - 1309	2748	Pro-1 to Gly-10, Pro-20 to Gly-34, Pro-36 to Gly-45, Ala-51 to Pro-65, Val-78 to Arg-83, Gln-89 to Gly-98, Lys-114 to Val-119, Arg-158 to Ala-164, Thr-306 to Lys-313.	L0601: 4, H0617: 3, L0794: 2, L0629: 2, L0657: 2, L0604: 2, T0049: 1, S0218: 1, L0785: 1, S0442: 1, H0733: 1, H0411: 1, T0109: 1, H0428: 1, H0673: 1, S0366: 1, H0040: 1, H0616: 1, L0763: 1, L0375: 1, L0805: 1, L0658: 1, H0593: 1, H0658: 1, H0672: 1, L0743: 1, L0744: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0750: 1, L0596: 1, L0485: 1 and		

						H0721: 1.		
HOCPL72	1022059	574	2 - 1099	2749	Pro-1 to Glu-14, Pro-26 to Val-33, Tyr-167 to Tyr-174, Pro-188 to Ser-196.	L0766: 3, H0457: 2, H0706: 1, H0015: 1, H0373: 1, H0266: 1, H0553: 1, H0551: 1, H0509: 1, L0761: 1, L0665: 1, H0144: 1, H0689: 1, H0660: 1 and S0328: 1.		
HCOMM05	1022082	575	1 - 840	2750	Gln-19 to Asp-38, Pro-46 to Thr-55, Leu-96 to Gly-104, Ala-114 to Ala-119, Gln-125 to Trp-131, Pro-133 to Pro-141, Phe-144 to Glu-150, Glu-180 to Val-185, Glu-192 to Glu-197, Glu-254 to Leu-262, Met-272 to Ser-280.	AR089: 1, AR096: 1, AR061: 1, AR060: 1, AR033: 1, AR055: 0, AR052: 0, AR039: 0, AR104: 0 L0508: 9, H0620: 7, L0774: 6, L0509: 6, S0408: 5, L0750: 5, L0601: 5, L0515: 4, L0512: 4, H0594: 3, L0805: 3, L0514: 3, L0511: 3, H0670: 3, L0755: 3, H0556: 2, H0686: 2, S0358: 2, S0444: 2, H0199: 2, H0181: 2, H0617: 2, H0494: 2, L0505: 2, L0502: 2, L0769: 2, L0803: 2, L0809: 2, L0528: 2, L0663: 2, L0752: 2, H0657: 1,		

HLYDC86	1022162	576	3 - 947	2751	Pro-39 to Arg-45, Arg-52 to Ile-60, Glu-87 to Cys-96, Thr-108 to Ser-114, Thr-121 to Glu-128,	H0255: 1, S0420: 1, S0442: 1, S0360: 1, H0549: 1, H0586: 1, L0021: 1, H0036: 1, H0052: 1, H0597: 1, H0086: 1, H0012: 1, S0336: 1, H0606: 1, H0124: 1, L0504: 1, L0763: 1, L0627: 1, L0373: 1, L0764: 1, L0499: 1, L0498: 1, L0497: 1, L0376: 1, L0653: 1, L0493: 1, L0510: 1, L0513: 1, L0384: 1, L0789: 1, L0666: 1, L0665: 1, H0689: 1, H0660: 1, H0672: 1, S0328: 1, S0330: 1, S0454: 1, S0406: 1, S0432: 1, L0754: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0759: 1, S0434: 1 and H0506: 1.	L0794: 4, S0002: 2, L0803: 2, H0445: 2, H0250: 1, H0412: 1, S0344: 1, L0761: 1, L0809: 1, H0435: 1 and	14q24.3	104311, 109150, 182600, 245200, 601208

					Met-133 to Thr-141, Asn-154 to Ala-169, Glu-174 to His-179, Gln-205 to Gln-213, Pro-222 to Phe-231, Ser-259 to Phe-265, Leu-282 to Ser-288.	L0747: 1.			
HTLEP21	1022167	577	92 - 457	2752		H0253: 1 and L0767: 1.			
HVCAS77	1022313	578	170 - 1072	2753	Glu-7 to Leu-18, Glu-75 to Arg-80, Gln-152 to Gln-157, Gln-202 to Lys-219, Ser-259 to Gly-266, Glu-277 to His-287.	L0766: 7, L0769: 6, S0418: 4, L0747: 4, S0424: 3, H0341: 2, S0278: 2, L0471: 2, H0083: 2, H0538: 2, L0770: 2, L0771: 2, L0775: 2, L0809: 2, H0520: 2, L0744: 2, L0754: 2, L0777: 2, L0759: 2, L0597: 2, S0026: 2, H0667: 2, H0171: 1, H0686: 1, S0212: 1, H0125: 1, S0420: 1, S0358: 1, S0376: 1, S0360: 1, S0046: 1, H0393: 1, H0333: 1, H0575: 1, H0581: 1, H0309: 1, H0046: 1, H0567: 1, H0188: 1, H0428: 1, H0553: 1, H0135: 1,			

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HOGCA79	1022627	579	210 - 635	2754	Thr-69 to Phe-77, Asp-80 to Thr-85.	H0547: 5, L0747: 4, L0766: 3, H0328: 2, H0551: 2, L0774: 2, H0435: 2, H0659: 2, H0436: 2, L0740: 2, L0754: 2, L0759: 2, L0596: 2, H0657: 1, H0341: 1, S0418: 1, S0360: 1, S0007: 1, H0229: 1, H0486: 1, H0013: 1, H0156: 1, H0037: 1, L0055: 1, L0455: 1, H0163: 1, H0616: 1, L0060: 1, H0560: 1, H0529: 1, L0763: 1, L0770: 1, L0764: 1, L0767: 1,		

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						Ser-3 to Gln-9, Thr-25 to Lys-40.	L0777: 9, H0622: 3, L0771: 3, L0747: 3, L0752: 3, H0657: 2, L0763: 2, L0517: 2, L0666: 2, L0748: 2, L0590: 2, H0050: 1, H0188: 1, H0687: 1, H0428: 1, H0039: 1, H0031: 1, H0032: 1, H0674: 1, S0036: 1, H0652: 1, L0369: 1, L0520: 1, L0769: 1, L0765: 1, L0773: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0775: 1, L0651: 1, L0655: 1, L0659: 1, L0782: 1, L0789: 1, L0665: 1, L0438: 1,
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				2 - 247				
				580				
				1022663				
				HSKJP93				

						H0670: 1, H0660: 1, S0406: 1, S3014: 1, L0756: 1, L0758: 1, L0759: 1, L0595: 1, S0011: 1 and H0712: 1.		
HAZAA64	1022719	581	106 - 705	2756	Asn-58 to Thr-64, Ile-72 to Ser-78, Gly-119 to Lys-128, Thr-185 to Leu-200.	H0695: 414, H0580: 44, L0777: 6, L0731: 6, H0052: 5, L0766: 5, L0747: 5, H0617: 4, H0494: 4, S0045: 3, H0083: 3, H0181: 3, H0038: 3, L0637: 3, L0779: 3, L0758: 3, H0484: 2, H0599: 2, S0049: 2, H0428: 2, L0774: 2, L0775: 2, L0518: 2, L0439: 2, L0750: 2, L0596: 2, L0588: 2, L0599: 2, L0601: 2, H0265: 1, H0556: 1, T0002: 1, S0040: 1, H0294: 1, H0341: 1, H0254: 1, H0255: 1, S0420: 1, S0444: 1, S0360: 1, H0208: 1, H0492: 1, L0623: 1, H0013: 1, S0280: 1, H0156: 1, L0021: 1, S0010: 1, H0194: 1, H0046: 1,		

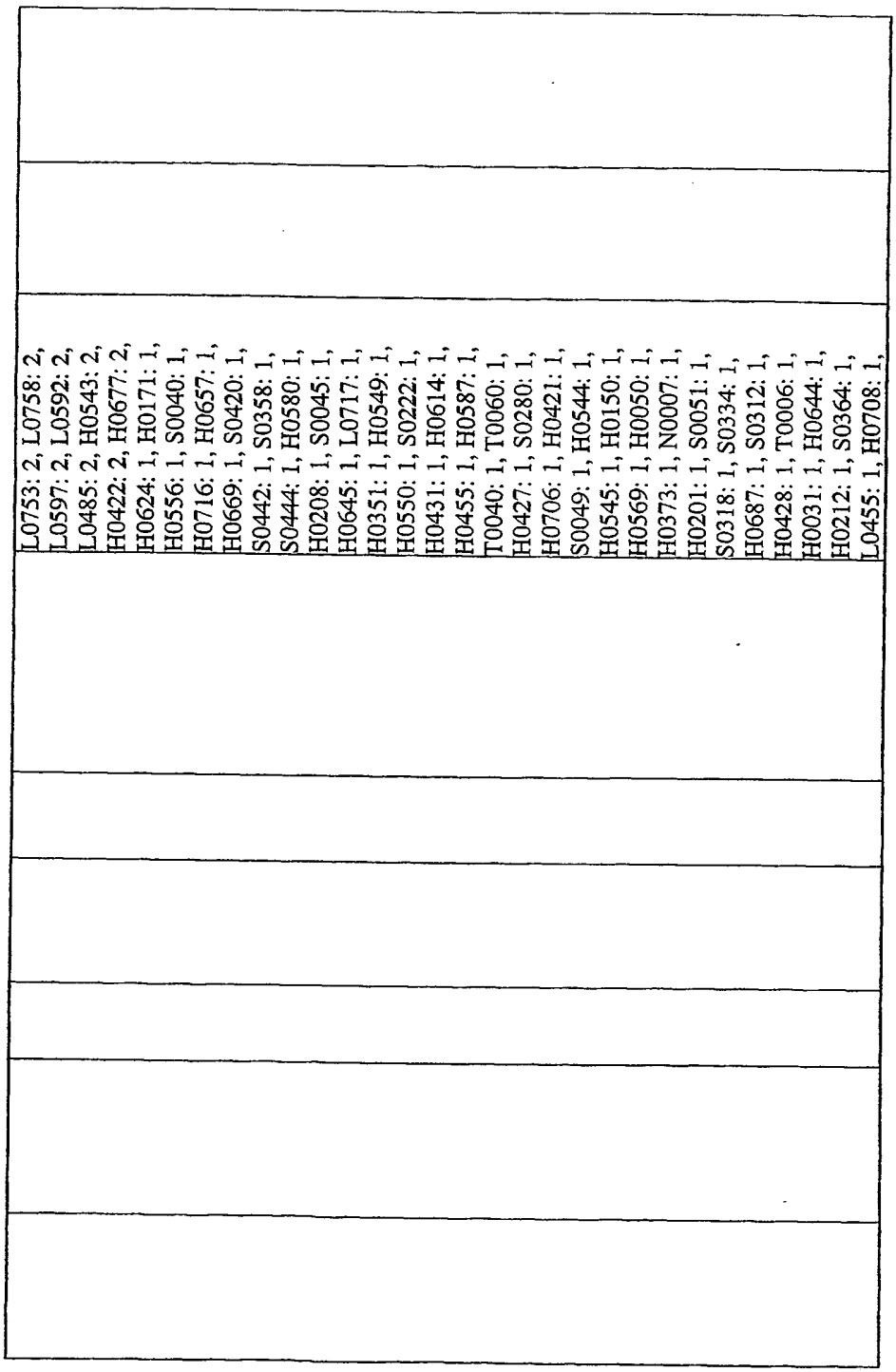
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HSEBD72	1022904	582	140 - 430	2757	Thr-11 to Arg-16, Asn-78 to Asp-84.	S0406: 9, L0754: 9, L0747: 9, L0752: 9, H0556: 7, L0742: 7, L0758: 7, S0410: 6, H0658: 6, L0779: 6, H0656: 5, S0444: 5, S0360: 5, H0660: 5, H0657: 4, H0255: 4, H0545: 4, H0012: 4, H0620: 4, H0708: 4,	14q24.1	

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HDPYE27	1022911	583	380 - 1066	2758	Trp-1 to Ser-8, His-11 to Asn-16, Gln-19 to Pro-25, Gly-38 to Gly-44, Leu-54 to Arg-62, Ser-70 to Asp-78, Gln-83 to Ser-88, Thr-99 to Asn-105, Ser-123 to Val-135, Pro-143 to Arg-169, His-194 to Tyr-206.	AR096: 1, AR104: 1, AR052: 0, AR060: 0, AR089: 0, AR039: 0, AR061: 0, AR055: 0, AR033: 0 L0740: 18, H0521: 15, S0003: 14, L0777: 13, L0754: 12, L0756: 12, H0710: 11, L0747: 10, L0766: 9, L0438: 9, L0750: 7, L0752: 7, H0622: 6, H0522: 6, L0439: 6, L0757: 6, H0156: 5, L0775: 5, S0136: 5, L0731: 5,	9q13-q21	

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HCRQL51	1022997	584	47 - 1030	2759	Ser-35 to Gly-40, Ser-103 to His-109, Tyr-151 to Gly-159, Pro-216 to Glu-224, Asn-249 to Trp-258, Pro-278 to Glu-284.	H0013: 10, H0644: 6, H0144: 6, H0615: 5, L0748: 4, L0777: 4, H0393: 3, T0114: 3, H0012: 3, H0024: 3, H0529: 3, L0438: 3, H0547: 3, L0439: 3, H0624: 2, H0170: 2, H0341: 2, L0005: 2, H0370: 2, H0050: 2, L0471: 2, H0031: 2, H0038: 2, L0750: 2, L0758: 2, H0595: 2, L0592: 2, H0171: 1, S0212: 1, S0418: 1, S0356: 1, H0619: 1, L0717: 1, S0222: 1, H0427: 1, H0036: 1, H0046: 1, H0620: 1, H0594: 1, H0266: 1, H0328: 1, L0142: 1, H0591: 1, H0616: 1, H0059: 1, H0625: 1, S0210: 1, L0768: 1, H0520: 1, H0519: 1,	L0480: 1, L0362: 1, S0106: 1, S0192: 1, S0242: 1, H0542: 1, H0423: 1, S0424: 1 and S0446: 1.	7q32	180105, 190900, 222800, 246900

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HDTCC55	1023046	585	195 - 533	2760	Ser-26 to Ser-32.	H0486: 1 and L0766: 1.		
HOOJQ91	1023049	586	1307 - 525	2761	Ala-2 to Thr-9.			
HCE4K28	1023227	587	238 - 840	2762	Phe-15 to Gly-29.	L0750: 6, L0766: 5, L0809: 4, L0747: 4, L0758: 4, S0354: 3, H0617: 3, L0775: 3, L0783: 3, H0690: 3, S0406: 3, L0753: 3, L0601: 3, H0255: 2, S0007: 2, H0618: 2, H0253: 2, H0309: 2, H0150: 2, H0428: 2, H0553: 2, H0494: 2, L0770: 2, L0771: 2, L0803: 2, L0774: 2, L0666: 2, S0330: 2, H0539: 2, H0134: 2, L0777: 2, L0592: 2, H0624: 1, H0686: 1, H0664: 1, S0408: 1, H0489: 1, H0580: 1, H0351: 1, S0278: 1, H0333: 1, H0559: 1, S0474: 1, H0052: 1,		

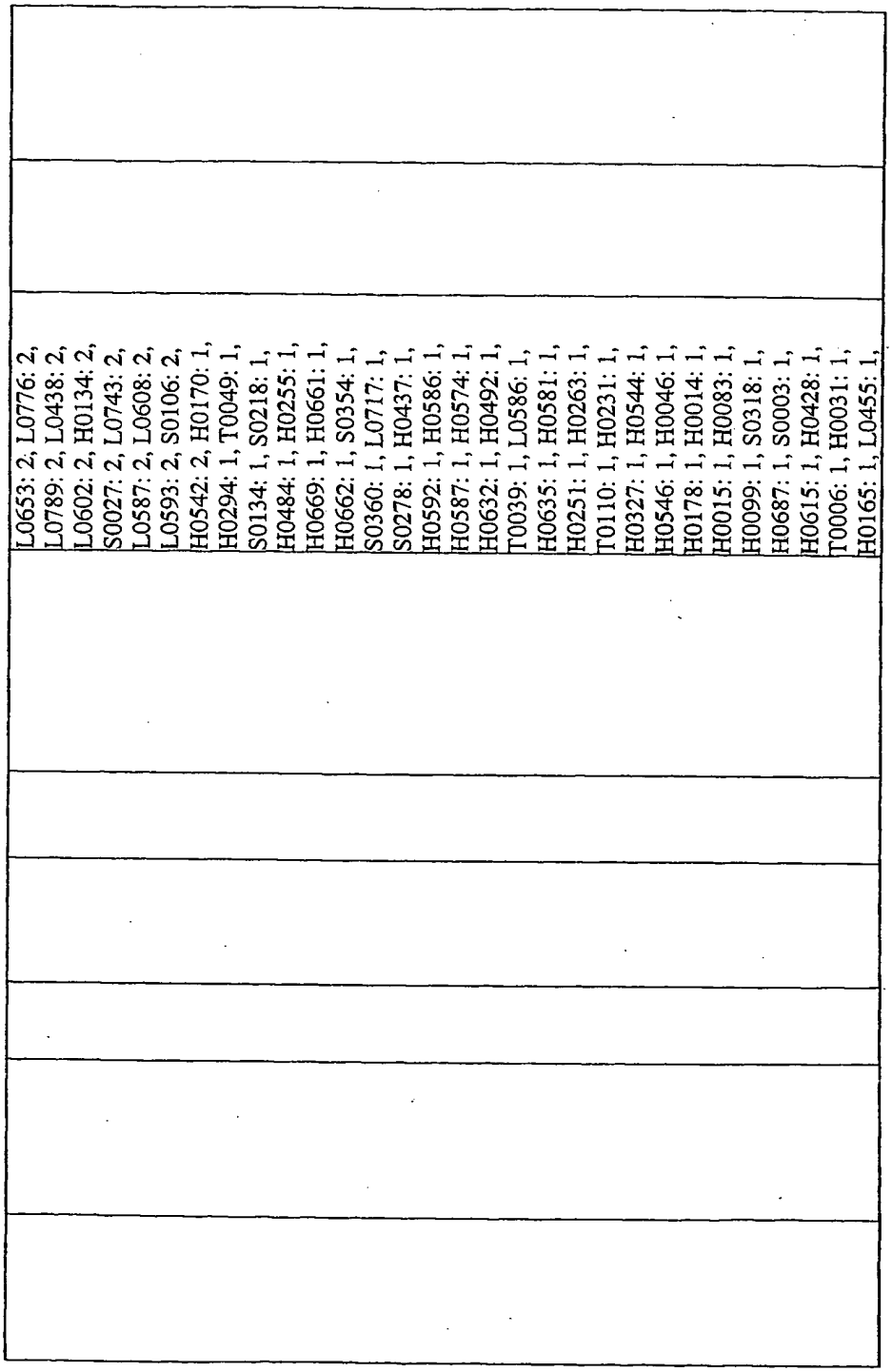
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HPDVY62	1023264	588	2 - 1126	2763	H0624: 2, H0586: 2, H0031: 2, L0748: 2, H0171: 1, L0439: 2, H0251: 1, S0356: 1, S0376: 1, H0052: 1, H0014: 1, H0050: 1, H0647: 1, H0051: 1, H0144: 1, L0789: 1, H0521: 1, H0658: 1, L0752: 1, L0754: 1, S0276: 1 and S0436: 1, S0424: 1.	10q26.13-q26.3	263700	

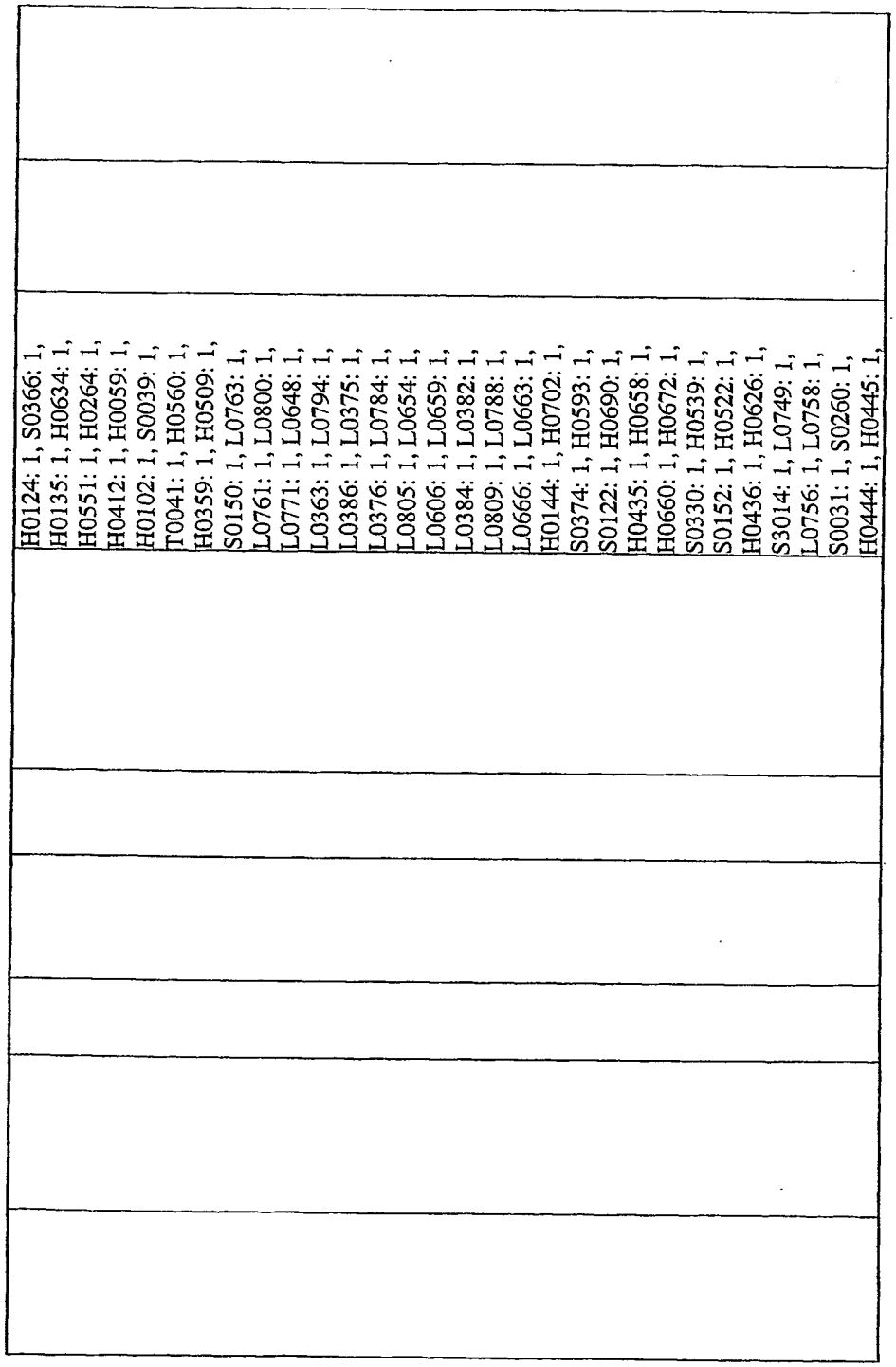
HLHDK42	1023339	589	1 - 351	2764	Asn-19 to Asp-29, Leu-34 to Gly-41.	H0024: 2 and H0596: 1.		
HLDRQ55	1023375	590	2 - 421	2765		H0081: 1, H0510: 1 and H0144: 1.		
HVVBI06	1023414	591	1449 - 646	2766		H0543: 7, H0341: 6, S0003: 5, L0740: 5, L0747: 5, H0619: 4, H0575: 4, H0318: 4, S0206: 4, L0750: 4, L0588: 4, H0542: 4, H0265: 3, S0358: 3, S0046: 3, H0486: 3, H0069: 3, S0022: 3, L0666: 3, H0556: 2, S0116: 2, S0212: 2, S0418: 2, S0376: 2, S0360: 2, S0132: 2, H0497: 2, L0471: 2, H0090: 2, H0551: 2, H0494: 2, H0633: 2, S0144: 2, H0529: 2, L0662: 2, L0655: 2, L0664: 2, H0144: 2, H0547: 2, S0152: 2, L0757: 2, H0445: 2, H0624: 1, S6024: 1, S0114: 1, S0134: 1, S0218: 1, H0650: 1, H0657: 1, H0656: 1, H0663: 1, H0662: 1,	X	

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HOCME51	1023422	592	2 - 319	2767	Glu-36 to Thr-44, His-72 to Tyr-78, Glu-82 to Tyr-88.	H0623: 4, H0046: 3, H0581: 2, H0023: 2, H0083: 2, L0791: 2, L0438: 2, H0547: 2, H0539: 2, L0750: 2, H0583: 1, H0341: 1, H0125: 1, S0420: 1, S0356: 1, H0208: 1, S0045: 1, H0261: 1, S0222: 1, H0592: 1, H0635: 1, H0318: 1, H0052: 1, L0163: 1, H0266: 1, H0494: 1, L0475: 1, H0538: 1, L3904: 1, S0374: 1, H0660: 1, H0522: 1, H0134: 1, S0028: 1, S0206: 1, L0439: 1, L0753: 1, L0595: 1,	

HPDOP74	1023531	593	1659 - 307	2768	Leu-23 to Asp-31, Gln-46 to Ile-69, Ile-120 to Lys-128, Pro-148 to Asp-154, Pro-216 to Val-223, Asn-261 to Ala-273, Gly-290 to Gln-299, Lys-305 to Tyr-312, Glu-341 to Ala-346, Pro-394 to Met-404, Ser-418 to Ser-440, Glu-442 to Gly-450.	H0542: 1, H0543: 1 and H0506: 1.	L0591: 11, H0069: 9, H0494: 9, L0588: 7, H0543: 7, H0657: 6, H0318: 6, T0042: 6, H0547: 6, H0556: 5, L0665: 5, L0751: 5, H0423: 5, T0002: 4, H0050: 4, L0747: 4, L0779: 4, H0341: 3, H0638: 3, H0580: 3, H0393: 3, H0052: 3, H0266: 3, H0617: 3, H0616: 3, H0413: 3, H0521: 3, L0754: 3, L0596: 3, L0362: 3, H0422: 3, H0265: 2, L0470: 2, H0305: 2, H0637: 2, S0045: 2, H0370: 2, T0109: 2, H0156: 2, H0599: 2, H0575: 2, H0036: 2, H0618: 2, H0253: 2, L0483: 2, H0181: 2, H0038: 2, H0561: 2, H0646: 2, L0770: 2, L0769: 2, L0646: 2, L0521: 2, L0662: 2, L0768: 2, L0803: 2,		


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L0587: 2, L0608: 2,
L0593: 2, S0106: 2,
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S0134: 1, S0218: 1,
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HMSOH12	1023545	594	1 - 1077	2769	Lys-25 to Asp-31, His-46 to Glu-54, Ser-80 to Lys-86, Val-109 to Lys-115, Arg-143 to Met-149, Lys-193 to Arg-198, His-253 to Gly-259.	H0707: 1, L0592: 1, H0653: 1, H0665: 1, S0276: 1 and S0424: 1.	L0731: 12, L0439: 10, L0747: 8, L0770: 7, L0662: 6, L0775: 5, L0663: 5, H0423: 5, L0769: 4, L0752: 4, H0422: 4, H0657: 3, H0656: 3, S0356: 3, S0360: 3, S0222: 3, H0318: 3, H0083: 3, L0764: 3, L0768: 3, L0766: 3, L0809: 3, L0665: 3, H0547: 3, H0682: 3, H0659: 3, H0672: 3, L0750: 3, L0588: 3, L0591: 3, S0007: 2, H0581: 2, H0644: 2, H0412: 2, S0002: 2, S0426: 2, L0648: 2, L0364: 2, L0774: 2, L0375: 2, L0655: 2, L0666: 2, L0664: 2, H0520: 2, H0435: 2, H0666: 2, H0651: 2, H0521: 2, S0027: 2, L0740: 2, L0755: 2, L0757: 2, L0758: 2, H0542: 2,		

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HOPJG50	1023584	595	866 - 507	2770	Thr-18 to Asn-31, Lys-39 to Ser-47, Ser-71 to His-76, Gln-113 to Lys-120.	L0748: 2, L0749: 2, L0731: 2, H0624: 1, H0486: 1, H0309: 1, L0769: 1, L0653: 1, H0684: 1 and L0779: 1.	4	
HDUAB04	1023585	596	3 - 371	2771	Thr-21 to Asn-34, Lys-42 to Ser-50, Ser-74 to His-79, Gln-116 to Lys-123.		4	
HVCAA38	1023632	597	27 - 818	2772	Asn-12 to Thr-17, Gln-60 to Arg-66, Ser-71 to Asn-83, Thr-89 to Ala-96, Gln-120 to Thr-126, Glu-149 to Lys-154, Thr-213 to Ser-219, Arg-231 to Tyr-244, Trp-252 to Trp-259.		22q12.1	123620, 188826, 600850, 601669
HIBCN87	1023837	598	1753 - 776	2773	Arg-1 to Cys-7, Val-96 to Arg-105, Glu-130 to Leu-135, Pro-207 to Arg-225, Asp-231 to Cys-251, Pro-259 to Ile-264,	L0439: 8, L0794: 5, L0758: 5, L0805: 4, L0809: 4, S0358: 3, L0769: 3, L0776: 3, L0665: 3, L0438: 3, H0658: 3, L0717: 2,	22q13.1	103050, 103050, 124030, 124030, 138981, 182380,

					Pro-294 to Pro-304, Glu-310 to Ile-316, Ser-320 to Pro-326.	H0052: 2, H0059: 2, L0662: 2, L0803: 2, L0789: 2, H0690: 2, L0748: 2, H0556: 1, S0114: 1, H0583: 1, S0376: 1, H0600: 1, H0618: 1, H0253: 1, T0010: 1, H0252: 1, H0617: 1, H0038: 1, H0100: 1, L0520: 1, L0761: 1, L0768: 1, L0766: 1, L0783: 1, L0666: 1, L0663: 1, H0547: 1, H0593: 1, H0683: 1, H0670: 1, H0648: 1, H0436: 1, L0751: 1, L0755: 1, H0445: 1 and H0352: 1.		188826, 190040, 190040, 190040
HPCOM04	1024000	599	36 - 818	2774	Arg-1 to Gln-7, Pro-18 to Leu-23, Asp-42 to Ile-47, Gln-56 to Glu-63, Glu-93 to Ile-105, Glu-132 to Leu-137, Ile-202 to Leu-208, Asn-220 to Lys-226, Asn-254 to Phe-259.	L0438: 3, L0764: 2, H0659: 2, L0754: 2, H0589: 1, H0580: 1, H0013: 1, H0622: 1, H0617: 1, T0067: 1, L0767: 1, L0775: 1, L0655: 1, L0659: 1, L0666: 1, H0648: 1, S0330: 1, H0710: 1, L0748: 1, L0740: 1, L0747: 1, L0753: 1, L0480: 1 and L0599: 1.	22q11.1	231950, 600850

HUCPU06	1024069	600	609 - 313	2775			L0766: 5, L0770: 2, L0803: 2, L0666: 2, L0747: 2, L0603: 2, H0686: 1, S0420: 1, L0662: 1, L0794: 1, L0783: 1, L0383: 1, L0809: 1, L0665: 1, H0684: 1, H0658: 1 and L0750: 1.		
HPAME01	1024332	601	564 - 1061	2776	Cys-1 to Gln-6, Val-19 to Ala-24.		L0439: 12, L0743: 5, L0747: 5, L0749: 5, L0769: 4, L0794: 4, L0731: 4, L0803: 3, L0774: 3, L0809: 3, H0254: 2, H0393: 2, H0318: 2, H0052: 2, H0188: 2, H0040: 2, L0659: 2, L0790: 2, L0438: 2, L0753: 2, H0423: 2, H0265: 1, H0685: 1, H0341: 1, H0402: 1, S0360: 1, H0580: 1, L0717: 1, H0550: 1, H0370: 1, H0333: 1, H0643: 1, H0486: 1, H0013: 1, H0250: 1, H0599: 1, H0042: 1, H0253: 1, H0327: 1, H0046: 1, H0086: 1, H0012: 1,		

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				2777			
			3 - 392				
		602					
	1024472						
HTTJS76							

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HCOR157	1024556	603	230 - 1237	2778	Gly-29 to Glu-35, Met-57 to Lys-64, Ser-104 to Ser-109, Tyr-122 to Val-128, Pro-144 to Asp-153, Pro-244 to Gly-253, Arg-323 to Pro-330.	H0553: 9, H0624: 4, L0471: 4, H0619: 3, H0494: 3, H0520: 3, H0547: 3, S0126: 3, L0755: 3, H0013: 2, H0031: 2, H0644: 2, H0040: 2, L0659: 2, L0666: 2, L0665: 2, H0144: 2, H0519: 2, H0670: 2, L0780: 2, L0361: 2, S0026: 2, H0171: 1, H0661: 1, S0360: 1, H0244: 1, H0156: 1, L0021: 1, S0010: 1, H0052: 1, H0046: 1, L0163: 1, S0214: 1, L0142: 1, H0032: 1, H0551: 1,	8p22	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629

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HNORG50	1024624	604	2 - 1120	2779	Ile-1 to Gln-18, Lys-69 to Gln-74, Ala-81 to Arg-86, Lys-102 to Lys-107, Glu-146 to Val-153, His-156 to Ile-161, Glu-195 to Ser-207, Asp-306 to Leu-316, Ala-318 to Gly-333, Gln-346 to Asp-352.	L0601: 25, S0474: 22, H0521: 17, S0278: 16, H0542: 14, H0543: 13, L0596: 11, H0580: 10, H0494: 10, H0575: 8, L0659: 8, H0581: 7, H0559: 6, H0031: 6, L0655: 6, S3014: 6, S0027: 6, L0591: 6, H0657: 5, S0358: 5, S0360: 5, H0457: 5, H0529: 5, L0666: 5, S0152: 5, L0748: 5, L0731: 5, H0583: 4, H0650: 4, H0587: 4, H0318: 4, H0040: 4,			

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H0392: 2, H0586: 2,
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HWLVR07	1024915	605	687 - 328	2780	Lys-28 to Thr-33, Asn-35 to Lys-53, Ala-98 to Glu-104.			
HOPKF60	1025047	606	1132 - 197	2781	Glu-41 to Lys-46, Ser-49 to Glu-55, Asp-109 to Arg-114, His-133 to Asp-138, Arg-170 to Glu-181, Ala-246 to Pro-254, Lys-282 to Ser-287, Ala-296 to Asp-302.	S0358: 10, H0584: 9, S0420: 8, L0439: 8, H0543: 8, H0250: 7, H0618: 7, L0601: 7, S0046: 6, H0424: 6, H0251: 5, H0046: 5, L0438: 5, H0435: 5, H0136: 5, S0045: 4, H0599: 4, H0494: 4, H0561: 4, H0547: 4, H0539: 4, L0748: 4, L0751: 4, S0212: 3, S0007: 3, H0486: 3, H0706: 3, H0253: 3, H0545: 3, S0036: 3, H0040: 3, H0551: 3, H0264: 3, H0132: 3, H0529: 3, H0144: 3, H0520: 3, H0448: 3, H0445: 3, H0665: 3, H0423: 3, H0677: 3, H0624: 2, S0040: 2, H0341: 2, H0484: 2, H0125: 2, S0360: 2, S0222: 2, H0586: 2, H0497: 2, H0575: 2, H0318: 2, H0052: 2,		

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S0042: 2, S0424: 2,
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H0556: 1, T0002: 1,
H0218: 1, H0161: 1,
H0686: 1, S0342: 1,
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H0294: 1, H0656: 1,
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H0592: 1, H0333: 1,
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H0050: 1, H0012: 1,
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H0179: 1, H0271: 1,
H0292: 1, H0286: 1,
S0022: 1, H0039: 1,
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H0056: 1, H0100: 1,
T0041: 1, S0015: 1,
H0625: 1, S0464: 1,
S0294: 1, S0438: 1,
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H0693: 1, H0519: 1,
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H0660: 1, H0518: 1,
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H0626: 1, S3014: 1,

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HBDAD74	1025102	607	2 - 406	2782	Gly-22 to Glu-28, Glu-42 to Arg-60, Leu-67 to Glu-89, Asp-106 to Thr-118, Gln-120 to Ile-130.	L0766: 7, L0803: 4, L0779: 3, H0421: 2, H0615: 2, L0382: 2, L0748: 2, L0777: 2, L0002: 1, S0116: 1, H0638: 1, S0358: 1, H0393: 1, S6022: 1, H0431: 1, H0586: 1, H0486: 1, H0427: 1, S0474: 1, H0327: 1, H0057: 1, H0428: 1, S0036: 1, L0351: 1, H0538: 1, L0638: 1, L0667: 1, L0653: 1, L0659: 1, L0809: 1, H0693: 1, L0438: 1, H0547: 1, S0146: 1, H0626: 1, L0746: 1, L0756: 1, L0752: 1, L0731: 1, L0758: 1,		

						S0308: 1, H0595: 1, L0596: 1 and L0599: 1.		
HPCTY12	1025231	608	68 - 1225	2783	Ala-1 to Ser-8.	L0805: 3, H0657: 2, L0769: 2, L0766: 2, L0659: 2, L0809: 2, L0789: 2, L0665: 2, L0565: 2, H0659: 2, L0749: 2, L0777: 2, L0755: 2, L0596: 2, H0685: 1, H0583: 1, H0650: 1, H0656: 1, H0663: 1, S0420: 1, S0356: 1, H0619: 1, L0717: 1, H0586: 1, H0251: 1, H0050: 1, H0622: 1, H0135: 1, H0038: 1, H0551: 1, H0272: 1, H0561: 1, H0509: 1, L0637: 1, L0646: 1, L0794: 1, L0387: 1, L0776: 1, L0655: 1, L0657: 1, L0636: 1, L0666: 1, L0664: 1, H0520: 1, H0547: 1, H0519: 1, H0672: 1, L0593: 1, H0667: 1 and H0352: 1.	12q12-q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
HFASF12	1025327	609	103 - 201	2784	Pro-19 to Cys-28.	L0747: 4, L0757: 4, L0759: 4, L0770: 3, L0769: 2, L0659: 2,		

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HLIBM71	1025359	610	147 - 617	2785		Ser-26 to Ile-35.	H0556: 4, H0253: 4, H0620: 4, L0731: 3, S0212: 2, H0052: 2, H0124: 2, L0766: 2, L0809: 2, L0565: 2, S0126: 2, S0328: 2, L0603: 2, H0739: 1, S0114: 1, S0218: 1, H0657: 1, S0116: 1, H0638: 1, S0420: 1, S0045: 1, S0046: 1, S0278: 1, H0549: 1, H0550: 1, H0250: 1, H0156: 1, L0738: 1, H0327: 1, H0544: 1, L0471: 1, H0083: 1,	

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HNOKW27	1025366	611	3 - 701	2786	Phe-9 to Trp-14, Arg-125 to Asp-148, Ser-156 to Asp-163, Pro-206 to His-211.	L0439: 2, H0687: 1, L0761: 1, L0805: 1, L0438: 1 and H0670: 1.		

HPFDG48	1025526	612	461 - 303	2787		AR089: 2, AR039: 2, AR104: 2, AR053: 2, AR096: 2, AR060: 1, AR033: 1, AR061: 1, AR055: 1 L0748: 6, H0169: 1, S0428: 1, S0136: 1, L0754: 1 and L0749: 1.	Xp11.23-p11.22	300008, 300008, 300008, 300008, 300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060	
HVVBF24	1025712	613	49 - 1296	2788	Ser-1 to Gly-18, Trp-25 to Gly-31, Arg-46 to Ser-52, Ala-103 to Ala-108, Ser-154 to Gly-165, Gln-228 to Pro-236, Ser-284 to Gly-291, Ala-321 to Asp-327, Lys-377 to Asn-394, Asp-406 to Ser-416.	AR089: 13, AR060: 5, AR096: 5, AR104: 5, AR061: 2, AR055: 1 S0152: 12, S0356: 10, H0551: 6, H0423: 6, S0212: 5, H0090: 5, H0667: 5, S0358: 4, H0620: 4, H0622: 4, H0591: 4, L0794: 4, S0380: 4, L0731: 4, L0588: 4, S0242: 4, S0360: 3, S0474: 3, H0581: 3, S0126: 3,			

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HE8UF88	1025745	614	4207 -	2789	Ala-8 to Arg-14,	S0250: 1, H0615: 1, H0029: 1, H0553: 1, H0644: 1, H0032: 1, H0169: 1, H0316: 1, H0038: 1, H0040: 1, H0634: 1, H0063: 1, T0067: 1, H0477: 1, H0488: 1, H0623: 1, H0494: 1, H0625: 1, L0065: 1, S0438: 1, H0509: 1, S0142: 1, L0770: 1, L0646: 1, L0662: 1, L0653: 1, L0776: 1, L0659: 1, L0526: 1, L0666: 1, S0374: 1, H0693: 1, H0547: 1, H0682: 1, H0435: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0710: 1, H0518: 1, H0579: 1, H0704: 1, H0555: 1, S0390: 1, S0037: 1, S0027: 1, L0439: 1, L0747: 1, L0752: 1, L0759: 1, H0444: 1, H0595: 1, L0362: 1, S0011: 1, S0194: 1 and S0384: 1.	H0547: 10, H0013: 9,		

			2810		Ile-64 to Thr-69, Val-94 to Asp-101, His-112 to Gln-117, Tyr-139 to Glu-145, Tyr-195 to Cys-208, Gly-216 to Gly-223, Asp-297 to Ser-307, Gly-378 to Leu-383, Ile-391 to Pro-404, Asn-451 to Ser-466.	L0758: 8, L0771: 6, L0747: 6, S0422: 5, L0770: 5, H0341: 4, S0356: 4, H0486: 4, H0251: 4, H0038: 4, H0040: 4, T0041: 4, L0766: 4, S0152: 4, L0439: 4, H0171: 3, S0360: 3, S0046: 3, H0574: 3, H0024: 3, T0042: 3, S0440: 3, H0529: 3, H0670: 3, S0330: 3, H0539: 3, L0754: 3, L0749: 3, L0779: 3, H0624: 2, S0134: 2, H0583: 2, H0657: 2, S0116: 2, S0418: 2, S0354: 2, S0045: 2, H0318: 2, T0110: 2, H0046: 2, H0266: 2, S0003: 2, H0591: 2, H0634: 2, H0412: 2, H0561: 2, L0768: 2, L0806: 2, L0664: 2, H0144: 2, L0565: 2, H0519: 2, H0659: 2, H0672: 2, S0328: 2, S0378: 2, H0521: 2, H0696: 2, H0345: 2, L0741: 2,

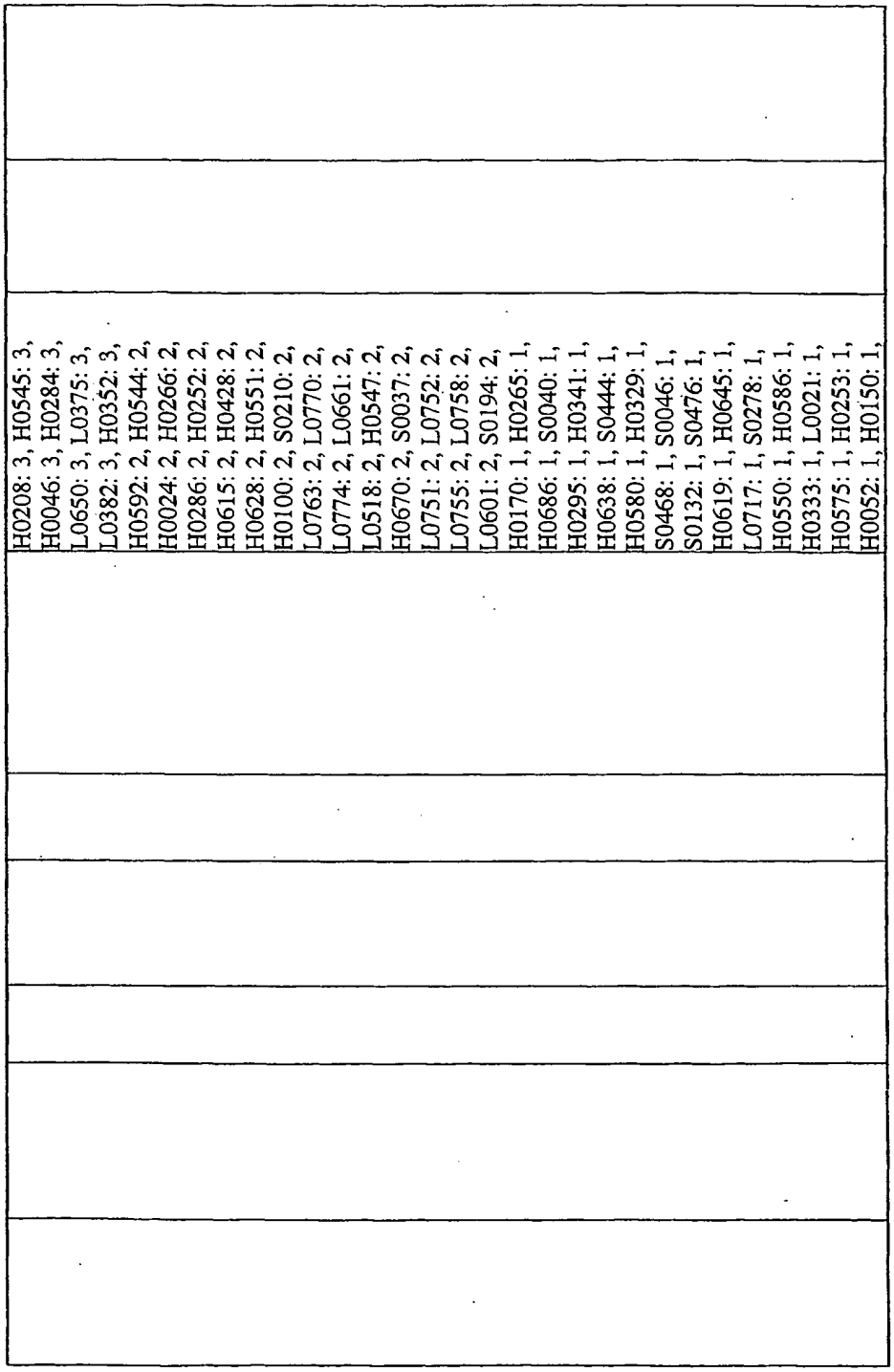
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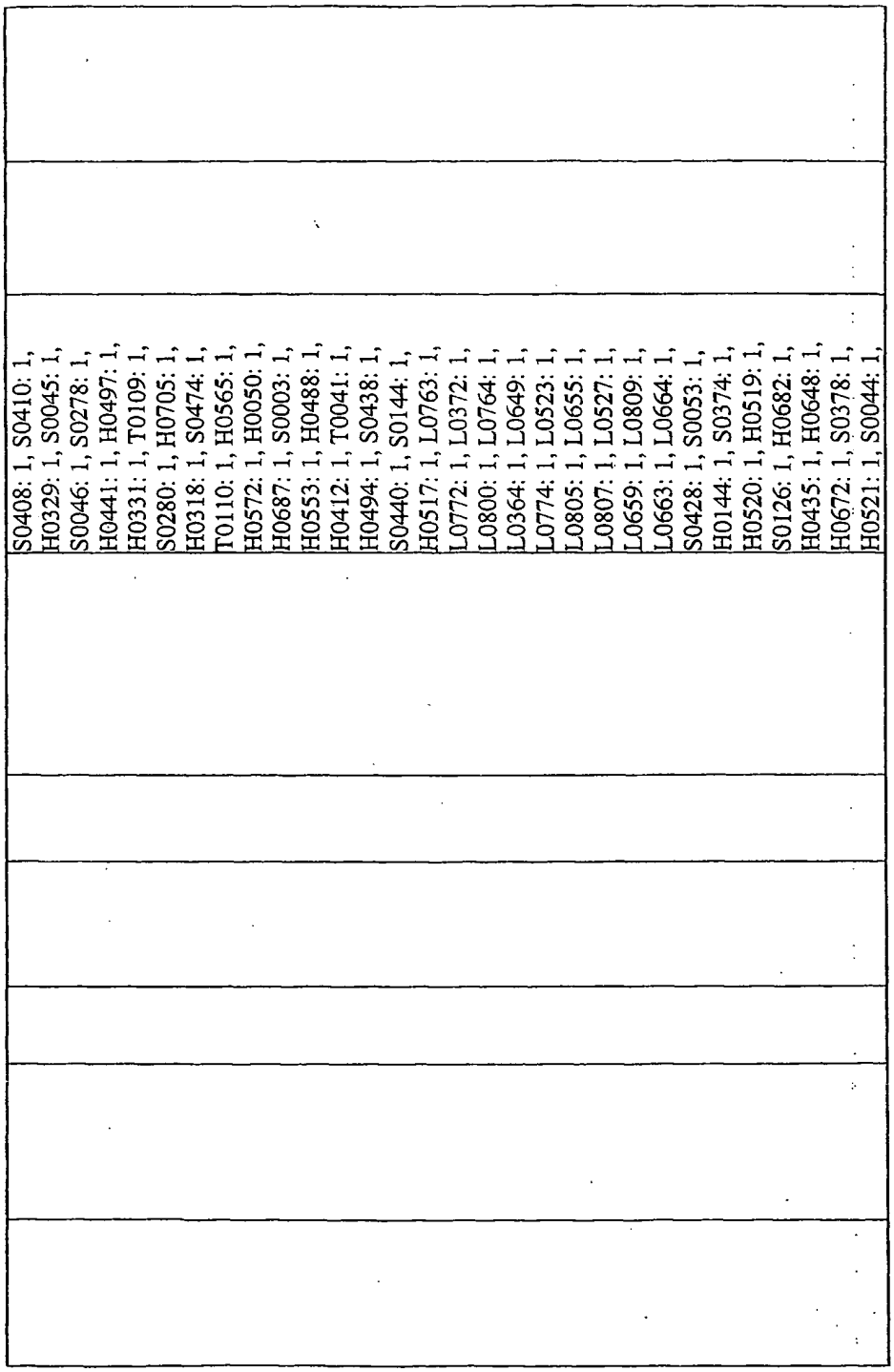
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HSDJR27	1030870	632	1758 - 622	2807	Gln-8 to Arg-27, Val-34 to Asn-39, Tyr-65 to Gly-75, Glu-80 to Lys-87, Thr-207 to Gly-218, Thr-245 to Gln-250, Leu-256 to Thr-263, Leu-273 to Thr-281, Lys-289 to Leu-296, Ser-323 to Asn-330.	L0665: 3, L0777: 3, L0717: 2, L0776: 2, L0438: 2, L0756: 2, L0752: 2, S0116: 1, H0661: 1, H0339: 1, H0549: 1, H0587: 1, H0688: 1, H0553: 1, L0351: 1, S0422: 1, L0437: 1, L0769: 1, L0637: 1, L0771: 1, L0662: 1, L0794: 1, L0766: 1, L0655: 1, L0787: 1, L0789: 1, L0664: 1, L0352: 1, H0659: 1, L0748: 1, L0754: 1, L0779: 1, L0731: 1, L0758: 1, S0260: 1, L0480: 1, L0596: 1 and L0608: 1.		
HOCPL33	1030871	633	1032 - 571	2808	Asp-1 to Gly-6, Pro-14 to Trp-35, Arg-37 to Gly-45, Ser-63 to Pro-72, Pro-87 to Arg-100,	L0770: 4, L0439: 4, L0438: 3, H0670: 3, L0748: 3, L0740: 3, H0538: 2, L0777: 2, S0342: 1, S0110: 1,		

					Pro-102 to Gly-107.	S0354: 1, S0444: 1, S0360: 1, H0729: 1, H0728: 1, H0734: 1, H0619: 1, H0549: 1, H0550: 1, H0587: 1, H0427: 1, H0253: 1, H0023: 1, T0010: 1, H0039: 1, H0674: 1, H0135: 1, H0488: 1, H0494: 1, S0015: 1, H0647: 1, S0210: 1, L0763: 1, L0800: 1, L0644: 1, L0521: 1, L0768: 1, L0775: 1, L0805: 1, L0659: 1, L0782: 1, L0783: 1, L0528: 1, L0789: 1, L0791: 1, L0793: 1, L0532: 1, H0725: 1, H0659: 1, H0658: 1, H0660: 1, S0013: 1, S0037: 1, S0206: 1, L0751: 1, L0605: 1, L0485: 1, L0599: 1 and S0026: 1.	
HPCQN80	1030963	634	86 - 2158	2809		L0803: 4, L0777: 4, L0758: 4, L0804: 3, L0659: 3, L0752: 3, S0408: 2, L0717: 2, L0598: 2, L0770: 2,	

L0662: 2, L0661: 2, L0657: 2, L0526: 2, L0664: 2, H0659: 2, H0648: 2, L0748: 2, L0751: 2, L0749: 2, L0779: 2, S0040: 1, H0713: 1, S0356: 1, S0442: 1, S0360: 1, H0393: 1, H0351: 1, H0441: 1, H0486: 1, H0581: 1, H0123: 1, H0050: 1, S0051: 1, H0673: 1, S0438: 1, S0144: 1, L0520: 1, L0763: 1, L0371: 1, L0637: 1, L5566: 1, L0800: 1, L0764: 1, L0773: 1, L0649: 1, L0381: 1, L0774: 1, L0375: 1, L0806: 1, L0653: 1, L0776: 1, L0809: 1, L0530: 1, L0788: 1, L0666: 1, H0521: 1, H0555: 1, S0032: 1, L0740: 1, L0745: 1, L0750: 1, L0756: 1, L0757: 1, L0591: 1, L0581: 1 and H0506: 1.							
HODEJ22	1031076	635	1561 -	2810			L0766: 6, L0804: 5,	

			1307			L0748: 5, L0666: 4, L0663: 4, L0634: 3, L0740: 3, H0445: 3, H0318: 2, H0046: 2, H0615: 2, H0428: 2, L0761: 2, L0775: 2, L0665: 2, H0658: 2, H0583: 1, H0656: 1, S0001: 1, H0637: 1, H0090: 1, H0038: 1, S0002: 1, L0520: 1, L0638: 1, L0649: 1, L0527: 1, L0657: 1, L0559: 1, L0647: 1, L0664: 1, S0052: 1, S0428: 1, H0682: 1, H0660: 1, H0555: 1 and L0751: 1.		
HODFZ16	1031085	636	340 - 498	2811	Phe-3 to Ala-23.	L0766: 2, L0748: 2, S0116: 1, L0005: 1, H0615: 1, H0529: 1, L0792: 1 and H0521: 1.			
HWGAE28	1031316	637	1 - 2271	2812	Cys-1 to Arg-6, Thr-84 to Thr-97, Arg-131 to Trp-136, Ser-155 to Gly-160, Thr-187 to Glu-201.	L0439: 9, H0519: 6, L0665: 5, H0547: 5, L0755: 5, S0434: 5, H0529: 4, L0659: 4, S0358: 3, S0010: 3, L0731: 3, L0599: 3, L0595: 3, H0422: 3, H0657: 2, H0581: 2,	2p24		107730, 107730, 107730, 107730, 182601, 602134

		H0251: 2, L0471: 2, H0510: 2, H0031: 2, L0763: 2, L0646: 2, L0662: 2, L0775: 2, L0809: 2, L0647: 2, H0436: 2, L0754: 2, L0758: 2, L0759: 2, L0605: 2, S0424: 2, H0624: 1, L0615: 1, H0341: 1, H0662: 1, S0418: 1, L0005: 1, S0360: 1, S0410: 1, S0046: 1, H0415: 1, H0600: 1, H0587: 1, H0642: 1, H0486: 1, H0250: 1, H0156: 1, H0546: 1, H0041: 1, S6028: 1, H0266: 1, S0334: 1, S0250: 1, T0006: 1, L0455: 1, H0708: 1, H0551: 1, H0059: 1, H0100: 1, L0370: 1, H0429: 1, H0494: 1, S0352: 1, S0370: 1, S0150: 1, H0641: 1, L0369: 1, L0520: 1, L0770: 1, L0638: 1, L0772: 1, L0641: 1, L0521: 1, L0794: 1, L0803: 1,				

					L0804: 1, L0650: 1, L0654: 1, L0661: 1, L0656: 1, L0526: 1, L0790: 1, L0666: 1, L0565: 1, H0520: 1, H0690: 1, H0435: 1, H0659: 1, H0670: 1, H0660: 1, H0696: 1, H0704: 1, S0406: 1, H0555: 1, S3014: 1, S0028: 1, L0740: 1, L0779: 1, L0777: 1, L0780: 1, L0592: 1, L0608: 1, L0362: 1, H0665: 1, S0194: 1, H0542: 1, H0423: 1 and L0465: 1.		
HOFNZ21	1031328	638	109 - 456	2813	Arg-1 to Gly-6.	H0415: 2	9p13-p12	230400, 250250
HOOKH25	1031329	639	231 - 2696	2814	Ala-4 to Glu-13, Ala-21 to Asp-27, Lys-34 to Asn-40, Asp-91 to Ile-98, Pro-122 to Lys-128, Arg-160 to Gly-165, Glu-203 to Ser-213, Gly-218 to Cys-225, Ser-298 to Lys-304, Glu-307 to Asn-312, Pro-327 to His-333,	L0747: 8, L0659: 7, L0776: 5, L0770: 4, L0662: 4, L0768: 4, L0775: 4, L0752: 4, L0603: 4, H0556: 3, S0410: 3, L0665: 3, L0439: 3, L0750: 3, S0356: 2, S0408: 2, L0471: 2, H0271: 2, S0440: 2, L0762: 2, L0769: 2, L0372: 2,	9p13-p12	230400, 250250

						L0646: 2, L0764: 2, L0773: 2, L0766: 2, L0649: 2, L0655: 2, L0663: 2, L0664: 2, H0144: 2, L0565: 2, H0547: 2, H0690: 2, H0659: 2, L0602: 2, S0404: 2, L0754: 2, L0749: 2, L0777: 2, L0758: 2, L0596: 2, H0657: 1, S0001: 1, H0484: 1, H0638: 1, S0418: 1, S0444: 1, L0717: 1, H0333: 1, H0156: 1, H0052: 1, H0545: 1, H0012: 1, H0083: 1, H0687: 1, H0674: 1, H0090: 1, H0063: 1, H0264: 1, H0100: 1, L0434: 1, L0351: 1, H0494: 1, H0561: 1, S0466: 1, H0641: 1, H0529: 1, L0763: 1, L0761: 1, L0667: 1, L0363: 1, L0650: 1, L0653: 1, L0654: 1, L0379: 1, L0607: 1, L0807: 1, L0635: 1, L0783: 1, L0383: 1, L0809: 1,
					Thr-363 to Ser-368, Arg-375 to Val-383, Asp-500 to Leu-505, Arg-602 to Asp-608, Glu-722 to Ser-734, Glu-739 to Val-744, Glu-746 to His-751, Leu-778 to Phe-784, Pro-790 to Gly-795, Ala-797 to Thr-807, Tyr-812 to Tyr-821.	

						L0666: 1, H0658: 1, H0670: 1, H0648: 1, H0521: 1, S0406: 1, L0748: 1, L0731: 1, L0593: 1, L0595: 1, S0026: 1, S0276: 1 and H0422: 1.		
HDTIL75	1031435	640	1 - 1092	2815	Gly-1 to Arg-6, Glu-26 to Gly-31, Gln-70 to Trp-75.	S0410: 8, H0620: 5, H0012: 2, S0040: 1, S0358: 1, S0132: 1, H0486: 1, H0706: 1, H0031: 1, H0628: 1, H0316: 1, S0036: 1, H0090: 1, H0038: 1, H0131: 1, S0144: 1, L0774: 1, L0789: 1, L0666: 1, H0144: 1, L0438: 1, H0435: 1, H0672: 1, S0328: 1, H0539: 1, L0731: 1, S0436: 1 and H0665: 1.		
HPRSB55	1031451	641	3 - 1751	2816	Cys-18 to Lys-24, Gly-57 to Gly-63, Lys-72 to Ile-81, Cys-88 to Glu-93, Gly-97 to Glu-116, Thr-121 to Val-129, Lys-137 to Lys-150, Thr-156 to Asp-161, Gly-177 to Leu-182,	L0766: 4, L0758: 4, L0773: 3, L0748: 3, L0751: 3, L0731: 3, L0759: 3, H0171: 2, H0013: 2, H0644: 2, H0616: 2, H0633: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, L0754: 2, L0779: 2,		

					Glu-213 to Leu-229, Asp-275 to Arg-281, Asp-287 to Trp-299, Lys-302 to Arg-316, Leu-338 to Ser-343.	S6024: 1, S0212: 1, S0354: 1, S0046: 1, T0039: 1, H0599: 1, H0575: 1, H0036: 1, T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, H0271: 1, H0687: 1, H0553: 1, H0166: 1, H0212: 1, H0211: 1, H0264: 1, H0272: 1, H0100: 1, H0494: 1, S0002: 1, L0637: 1, L0627: 1, L0645: 1, L0764: 1, L0803: 1, L0774: 1, L0653: 1, L0606: 1, L0790: 1, L0664: 1, H0435: 1, H0660: 1, H0648: 1, H0521: 1, L0439: 1, L0747: 1, L0749: 1, L0750: 1, L0752: 1 and L0596: 1.		
HPDPY36	1031606	642	482 - 757	2817	Pro-33 to Pro-40, Pro-47 to Met-56.	L0471: 1, H0617: 1, L0761: 1, L0768: 1, H0658: 1, L0754: 1 and L0779: 1.	12		
HETFJ47	1031922	643	3 - 1328	2818		AR060: 4, AR089: 2, AR061: 1, AR096: 1, AR033: 0, AR039: 0, AR053: 0, AR052: 0			

		L0596: 7, H0622: 5, L0747: 5, H0046: 4, L0372: 4, L0764: 3, L0662: 3, L0657: 3, L0783: 3, L0663: 3, L0752: 3, H0662: 2, S0356: 2, H0040: 2, H0538: 2, L0646: 2, L0771: 2, L0774: 2, L0805: 2, L0809: 2, L0666: 2, L0665: 2, H0435: 2, H0672: 2, L0748: 2, L0751: 2, L0777: 2, L0608: 2, H0624: 1, H0686: 1, H0295: 1, H0241: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, S0132: 1, H0642: 1, H0590: 1, H0150: 1, H0620: 1, H0023: 1, H0356: 1, H0424: 1, H0213: 1, H0617: 1, H0169: 1, H0634: 1, H0063: 1, T0067: 1, H0488: 1, H0334: 1, S0370: 1, S0440: 1, H0652: 1, L0645: 1, L0773: 1, L0648: 1, L0806: 1, L0776: 1,				

L0541: 1, L0789: 1, L0790: 1, L0664: 1, S0374: 1, H0689: 1, H0666: 1, H0478: 1, L0779: 1, S0436: 1, H0506: 1 and H0712: 1.							
AR096: 10, AR089: 10, AR060: 7, AR104: 6, AR033: 5, AR053: 5, AR039: 4, AR061: 3, AR055: 3 L0803: 9, H0648: 5, H0046: 3, L0805: 3, L0731: 3, S0444: 2, S0360: 2, S0476: 2, H0597: 2, H0412: 2, L0764: 2, L0809: 2, H0670: 2, L0740: 2, L0747: 2, L0756: 2, L0777: 2, S0040: 1, T0049: 1, S0420: 1, S0358: 1, S0376: 1, H0580: 1, L0152: 1, S0045: 1, S0278: 1, H0261: 1, S0280: 1, H0618: 1, H0012: 1, H0266: 1, H0488: 1, H0268: 1, S0144: 1, S0344: 1, S0426: 1, L0638: 1, L0646: 1,							
		2819					
		14 - 1222					
		644					
	1031988						
HMAMI21							

	HCOQQ85	1032475	645	343 - 672	2820	Arg-37 to Ser-44, Leu-68 to Lys-73, Val-77 to Lys-84, Glu-98 to Lys-110.	L0794: 1, L0804: 1, L0774: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, S0374: 1, H0658: 1, H0651: 1, S0028: 1, L0779: 1, L0780: 1, L0755: 1, L0759: 1, H0445: 1 and S0276: 1.	L0775: 9, S0126: 9, L0747: 9, H0617: 7, L0750: 7, L0731: 7, H0670: 5, L0740: 5, L0770: 4, L0769: 4, L0768: 4, L0783: 4, L0752: 4, T0023: 3, L0764: 3, L0653: 3, L0776: 3, H0672: 3, S0046: 2, T0039: 2, H0318: 2, H0251: 2, H0545: 2, H0012: 2, H0373: 2, S0388: 2, H0266: 2, H0087: 2, H0100: 2, H0280: 2, L0368: 2, L0753: 2, L0755: 2, L0757: 2, H0595: 2, L0590: 2, L0592: 2, S6024: 1, H0255: 1, H0664: 1, H0177: 1, S0360: 1,	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412,

						S0408: 1, H0411: 1, H0298: 1, L0622: 1, T0040: 1, L0021: 1, S0049: 1, H0052: 1, H0263: 1, H0597: 1, H0620: 1, T0003: 1, L0163: 1, H0594: 1, H0252: 1, H0606: 1, H0163: 1, S0464: 1, S0438: 1, H0652: 1, L0598: 1, L0763: 1, L0773: 1, L0375: 1, L0629: 1, L0628: 1, L0659: 1, L0518: 1, L0545: 1, L0541: 1, L0788: 1, L0665: 1, H0144: 1, H0691: 1, H0682: 1, H0658: 1, H0660: 1, H0648: 1, S0330: 1, S0380: 1, S0027: 1, L0748: 1, L0754: 1, L0756: 1, L0780: 1, L0758: 1, L0759: 1, L0462: 1 and H0352: 1.	601652, 602491	
HE2DQ62	1033653	646	1515 - 796	2821	Arg-1 to Ala-7, Glu-98 to Asp-103, Glu-109 to Asp-115, Leu-141 to Glu-146, Glu-172 to Arg-180.	H0545: 3, H0046: 3, L0763: 3, L0783: 3, S0358: 2, L0769: 2, L0774: 2, L0809: 2, H0547: 2, S0126: 2,		

HEBAE89	1034320	647	179 - 400	2822	Pro-20 to Phe-32, Pro-52 to Phe-59, Lys-68 to His-74.	H0660: 2, H0672: 2, S0031: 2, L0588: 2, H0624: 1, H0170: 1, H0265: 1, H0556: 1, H0295: 1, H0583: 1, H0657: 1, H0662: 1, S0356: 1, S0354: 1, S0360: 1, H0637: 1, S0046: 1, L0717: 1, H0550: 1, H0013: 1, H0086: 1, H0011: 1, H0510: 1, H0494: 1, H0646: 1, H0529: 1, L0502: 1, L0770: 1, L0638: 1, L0761: 1, L0521: 1, L0528: 1, L0666: 1, L0665: 1, H0144: 1, S0374: 1, H0519: 1, H0659: 1, S0380: 1, H0704: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, H0653: 1, S0194: 1 and S0276: 1.		
HKDBF43	1034471	648	3 - 431	2823	Pro-2 to Asp-14, Ser-71 to Thr-76, Ser-110 to Trp-119.	S0007: 5, S0010: 1, H0617: 1 and L0769: 1.		
						AR089: 31, AR053: 27, AR096: 26, AR052: 25, AR039: 16, AR060:		

						15, AR033: 13, AR104: 13, AR055: 6, AR061: 4 L0749: 4, L0471: 3, L0748: 3, L0777: 3, H0545: 2, H0561: 2, L0770: 2, L0769: 2, L0745: 2, L0779: 2, L0752: 2, L0759: 2, H0657: 1, H0663: 1, H0125: 1, S0358: 1, H0393: 1, H0411: 1, L0586: 1, H0013: 1, H0156: 1, H0083: 1, H0356: 1, H0328: 1, H0321: 1, H0551: 1, S0422: 1, L0764: 1, L0773: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, H0547: 1, H0519: 1, H0683: 1, H0659: 1, H0648: 1, H0672: 1, S0330: 1, S3014: 1, L0731: 1, S0031: 1 and H0352: 1.		
HVVCT43	1034539	649	3152 - 2838	2824		L0666: 47, H0046: 20, H0672: 13, L0754: 11, S0003: 9, L0766: 6, L0664: 6, L0744: 5, L0439: 5, L0777: 5,	

						L0663: 4, H0658: 4, L0599: 4, S0214: 3, L0637: 3, L0521: 3, L0804: 3, L0438: 3, H0435: 3, L0752: 3, S0408: 2, S0046: 2, H0497: 2, H0590: 2, H0050: 2, H0644: 2, H0264: 2, T0041: 2, S0002: 2, S0426: 2, L0770: 2, L0794: 2, L0775: 2, L0665: 2, H0547: 2, S0126: 2, H0659: 2, S0152: 2, H0478: 2, L0786: 2, L0779: 2, L0731: 2, L0759: 2, L0608: 2, H0423: 2, H0624: 1, H0556: 1, H0686: 1, S0342: 1, S0114: 1, S0132: 1, H0645: 1, S0222: 1, H0601: 1, H0270: 1, T0114: 1, H0013: 1, L0021: 1, H0599: 1, H0575: 1, H0318: 1, L0738: 1, H0327: 1, H0014: 1, H0373: 1, S0051: 1, H0021: 1, H0316: 1, H0040: 1, H0616: 1,		

						H0100: 1, H0625: 1, H0561: 1, S0440: 1, H0641: 1, S0144: 1, S0142: 1, L0598: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0651: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1, L0791: 1, L0792: 1, H0519: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, S0328: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0436: 1, L0758: 1, H0445: 1, L0684: 1, H0595: 1, L0588: 1, S0026: 1, H0543: 1, H0422: 1 and H0506: 1.		
HTTDR30	1035435	650	609 - 1022	2825	Val-39 to Ala-45.	AR055: 8, AR060: 6, AR052: 6, AR089: 5, AR096: 5, AR053: 5, AR033: 4, AR061: 3, AR104: 2, AR039: 2 L0766: 7, H0591: 3, H0040: 3, L0794: 3, H0689: 3, L0752: 3,		

						H0581: 2, H0059: 2, L0771: 2, L0809: 2, L0665: 2, L0749: 2, H0637: 1, H0497: 1, T0109: 1, H0036: 1, H0318: 1, H0039: 1, H0181: 1, H0038: 1, H0634: 1, L0637: 1, L0662: 1, L0649: 1, L0388: 1, L0776: 1, L0655: 1, L0658: 1, L0788: 1, H0520: 1, H0690: 1, H0670: 1, H0672: 1, L0751: 1, L0747: 1, L0750: 1, L0777: 1, L0758: 1 and L0361: 1.		
HODGO46	1035602	651	420 - 316	2826	Thr-11 to Asn-18, Gly-25 to Glu-30.	H0615: 2		
HNTTB23	1035988	652	3 - 974	2827	Pro-21 to Asn-31, Arg-158 to Lys-170, Thr-194 to Leu-200.	AR039: 2, AR096: 1, AR089: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0, AR053: 0 L0757: 3, L0594: 2, S0212: 1, L0527: 1, H0547: 1, S0328: 1 and L0756: 1.		
HVVBV73	1036583	653	334 - 1299	2828	His-55 to Arg-63, Glu-96 to Val-109, Ser-113 to Ala-119,	S0278: 5, H0580: 2, H0575: 2, H0050: 2, S0344: 2, L0764: 2,		

					Lys-140 to Tyr-150, Glu-157 to Ser-172, Gly-174 to Asn-185, Arg-223 to Pro-245, Leu-264 to Asp-272.	H0672: 2, T0002: 1, S0134: 1, H0656: 1, S0116: 1, H0706: 1, S0010: 1, H0581: 1, H0375: 1, H0030: 1, H0031: 1, H0644: 1, H0090: 1, H0087: 1, T0041: 1, S0142: 1, S0002: 1, S0426: 1, L0770: 1, L0667: 1, L0794: 1, L0803: 1, L0543: 1, H0521: 1, L0748: 1, L0749: 1, S0260: 1 and H0542: 1.		
HE8MH38	1036707	654	1 - 1812	2829		H0013: 2 and S0126: 1.			
HTEPV42	1036973	655	1 - 435	2830	Gln-1 to Asp-6, Gly-11 to Ser-16, Pro-21 to Leu-41, Ser-44 to Pro-54.	L0754: 6, L0758: 6, L0598: 3, L0756: 3, H0716: 2, S0358: 2, S0360: 2, S0007: 2, H0318: 2, H0052: 2, L0471: 2, H0615: 2, L0794: 2, L0766: 2, L0663: 2, H0658: 2, L0750: 2, L0731: 2, H0664: 1, H0638: 1, S0442: 1, H0741: 1, H0734: 1, H0229: 1, H0411: 1, H0415: 1, H0497: 1, H0574: 1, H0599: 1, H0108: 1,			

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						Val-10 to Lys-17, Val-137 to Gly-142, Pro-148 to Tyr-167.	AR061: 28, AR033: 25, AR104: 22, AR055: 22, AR060: 19, AR089: 19, AR052: 12, AR039: 11, AR096: 11, AR053: 8 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4,	
					2831			
				706 - 89				
			656					
		1037108						
	HFTCG52							

		H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512: 2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1,				

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					Asp-64 to Phe-69, Thr-104 to Phe-120.	AR052: 26, AR033: 22, AR104: 15, AR053: 14, AR060: 12, AR055: 12, AR089: 11, AR096: 8, AR061: 4, AR039: 2 H0360: 14, S0408: 5, L0774: 5, L0749: 5, L0775: 4, H0648: 4, L0623: 3, H0373: 3, L0520: 3, S0328: 3, S0406: 3, S0360: 2, S0222: 2, H0575: 2, T0082: 2, L0471: 2, H0494: 2, L0763: 2, L0769: 2, L0764: 2, L0517: 2, L0809: 2, H0684: 2, L0747: 2, S0031: 2, L0581: 2,	
				2832				
				1 - 360				
				657				
				1037131				
				HKAOB40				

		H0171: 1, T0002: 1, H0685: 1, T0049: 1, H0657: 1, S0116: 1, L0481: 1, H0638: 1, S0358: 1, S0444: 1, S0410: 1, H0580: 1, H0722: 1, S0045: 1, S0046: 1, S0132: 1, H0393: 1, T0060: 1, H0156: 1, H0230: 1, H0320: 1, H0014: 1, L0163: 1, S0051: 1, H0615: 1, S0036: 1, H0412: 1, H0202: 1, H0560: 1, S0438: 1, S0440: 1, S0144: 1, L0772: 1, L0521: 1, L0662: 1, L0767: 1, L0768: 1, L5574: 1, L0522: 1, L0659: 1, L0526: 1, L0782: 1, L0788: 1, H0689: 1, H0690: 1, H0658: 1, H0670: 1, H0672: 1, S0378: 1, S0404: 1, S0028: 1, L0779: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, L0589: 1, S0192: 1, H0422: 1 and S0424: 1.				

HPDVE37	1037303	658	34 - 885	2833	His-8 to Gly-18, Phe-25 to Ala-39, Val-70 to Ser-75, Gln-114 to Gly-121, Thr-146 to Lys-155, Gly-213 to Asn-219, Glu-256 to Asp-267.	H0521: 68, H0090: 12, L0666: 10, L0748: 10, L0775: 9, H0522: 9, H0638: 8, L0771: 8, L0659: 8, H0591: 7, L0747: 7, L0770: 5, L0664: 5, L0754: 5, H0580: 4, H0486: 4, H0622: 4, H0644: 4, H0551: 4, H0494: 4, L0655: 4, S0374: 4, L0755: 4, L0759: 4, S0132: 3, H0013: 3, H0421: 3, H0553: 3, H0616: 3, H0641: 3, S0142: 3, L0766: 3, L0663: 3, L0665: 3, H0547: 3, L0756: 3, L0779: 3, L0752: 3, S0358: 2, S0376: 2, S0444: 2, S0360: 2, S0278: 2, H0431: 2, H0586: 2, H0575: 2, H0318: 2, H0581: 2, H0457: 2, S0003: 2, H0688: 2, H0039: 2, H0264: 2, H0529: 2, L0763: 2, L0769: 2, L0646: 2, L0803: 2, L0774: 2, H0701: 2,		

		S0380: 2, H0555: 2, L0439: 2, L0740: 2, L0777: 2, L0731: 2, H0445: 2, L0599: 2, L0608: 2, H0506: 2, S0040: 1, H0650: 1, S0116: 1, S0212: 1, S0356: 1, S0354: 1, S0468: 1, S0045: 1, H0619: 1, S6022: 1, H0370: 1, H0392: 1, H0497: 1, H0642: 1, T0114: 1, H0427: 1, H0042: 1, H0251: 1, H0596: 1, H0046: 1, H0086: 1, H0057: 1, H0083: 1, H0375: 1, T0023: 1, H0031: 1, L0055: 1, H0598: 1, H0135: 1, H0038: 1, H0040: 1, H0412: 1, H0056: 1, T0042: 1, S0370: 1, H0509: 1, S0144: 1, S0002: 1, S0426: 1, L0796: 1, L0772: 1, L0764: 1, L0765: 1, L0662: 1, L0768: 1, L0389: 1, L0804: 1, L0651: 1, L0636: 1, L0647: 1,				

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HTLES74	1037438	659	95 - 859	2834			H0618: 3, L0740: 2, L0749: 2, L0596: 2, L0597: 2, S0354: 1, H0580: 1, H0042: 1, H0253: 1, S0010: 1, H0172: 1, H0615: 1, H0412: 1, S0386: 1, L0648: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0657: 1, L0809: 1, L0779: 1, L0758: 1 and H0445: 1.		
HCORG51	1037480	660	3 - 434	2835	Cys-1 to Glu-6, Asp-52 to Asp-65, Lys-82 to Pro-88, Phe-111 to Ala-123.		S0136: 33, L0747: 16, H0144: 14, L0731: 14, L0752: 13, S0422: 12, L0740: 12, L0754: 11,		

		L0750: 11, H0038: 10, S0026: 10, H0556: 9, S0360: 9, L0665: 9, H0521: 9, H0616: 8, L0520: 8, L0776: 8, L0664: 8, L0757: 8, H0009: 7, S0003: 7, L0655: 7, S0406: 7, L0748: 7, H0170: 6, L0471: 6, H0620: 6, S0440: 6, L0518: 6, L0749: 6, L0608: 6, H0341: 5, S0442: 5, H0351: 5, H0370: 5, H0013: 5, H0090: 5, H0551: 5, L0598: 5, L0375: 5, L0659: 5, S0126: 5, H0682: 5, H0648: 5, L0751: 5, H0543: 5, H0423: 5, L0005: 4, S0444: 4, S0007: 4, H0163: 4, H0494: 4, H0529: 4, L0769: 4, L0521: 4, L0775: 4, L0666: 4, H0659: 4, H0670: 4, S0027: 4, L0758: 4, H0542: 4, H0657: 3, S0212: 3, S0354: 3, S0408: 3, H0580: 3,			

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		H0641: 2, S0142: 2, S0344: 2, L0770: 2, L0771: 2, L0766: 2, L0558: 2, L0519: 2, H0520: 2, H0684: 2, H0435: 2, H0710: 2, H0696: 2, H0704: 2, H0134: 2, H0436: 2, S0028: 2, L0756: 2, L0753: 2, H0445: 2, S0434: 2, L0588: 2, H0422: 2, S0470: 1, H0686: 1, H0685: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0583: 1, H0484: 1, H0663: 1, H0241: 1, H0176: 1, S0356: 1, T0008: 1, H0637: 1, H0152: 1, S0046: 1, H0619: 1, H0645: 1, H0411: 1, H0438: 1, H0600: 1, H0497: 1, H0642: 1, H0331: 1, T0039: 1, H0635: 1, H0427: 1, H0156: 1, H0097: 1, H0575: 1, H0706: 1, H0390: 1, H0581: 1, H0421: 1, H0434: 1, H0196: 1,					

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HPAMM72	1038344	661	2 - 520	2836	Gly-1 to Thr-11.	L0747: 5, H0424: 4, H0617: 4, L0769: 3, L0526: 3, S3014: 3, L0748: 3, L0750: 3, H0661: 2, H0663: 2, H0392: 2, H0156: 2, H0123: 2, H0033: 2, H0213: 2, H0059: 2, L0763: 2, L0542: 2, H0519: 2, L0751: 2,	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850,
						L0789: 1, L0663: 1, S0428: 1, H0701: 1, L0565: 1, H0519: 1, H0593: 1, H0689: 1, H0658: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, S0380: 1, H0709: 1, S0152: 1, S0332: 1, S0044: 1, S0188: 1, H0187: 1, L0356: 1, H0478: 1, H0627: 1, H0631: 1, L0611: 1, S0206: 1, S0032: 1, L0439: 1, L0786: 1, H0343: 1, L0592: 1, L0485: 1, H0668: 1, H0136: 1, S0194: 1, S0196: 1, S0460: 1, H0506: 1 and H0008: 1.		

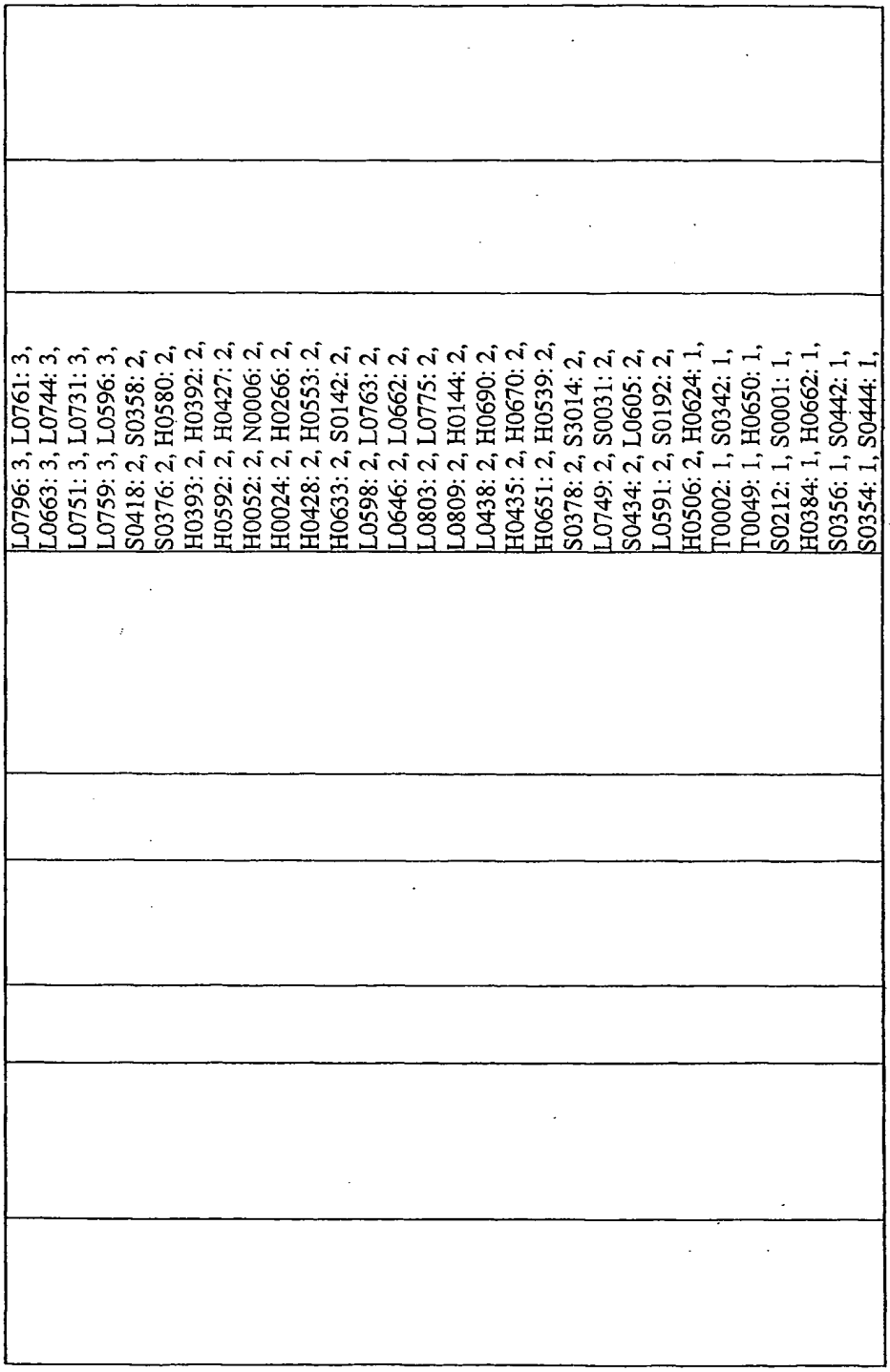
HKZAT03	1038378	662	21 - 1559	2837	Thr-1 to Gly-8, Phe-49 to Leu-67, Gln-142 to Gly-150, Pro-274 to Leu-282,	H0617: 14, H0521: 11, L0794: 4, H0542: 4, H0638: 3, S0360: 3, L0648: 3, L0659: 3,	22q13.33	
						L0779: 2, L0731: 2, L0757: 2, L0605: 2, L0615: 1, S0342: 1, H0580: 1, S0278: 1, H0550: 1, S0280: 1, L0021: 1, T0048: 1, H0052: 1, H0544: 1, H0545: 1, L0471: 1, H0012: 1, H0620: 1, H0014: 1, N0007: 1, S0051: 1, H0083: 1, H0284: 1, S0250: 1, H0688: 1, H0708: 1, H0080: 1, H0494: 1, H0509: 1, L0770: 1, L0764: 1, L0771: 1, L0376: 1, L0782: 1, L0809: 1, L0545: 1, L0666: 1, H0682: 1, H0659: 1, H0658: 1, H0672: 1, H0696: 1, S0044: 1, H0214: 1, L0743: 1, L0740: 1, L0754: 1, L0777: 1, S0260: 1, S0276: 1 and S0196: 1.	156850, 186580, 191092, 600140, 600273, 601313, 601785	

HDQMA85	1038717	663	228 - 356	2838	Pro-396 to Leu-402, Arg-405 to Glu-410, Gly-436 to Ala-442, Arg-470 to Pro-476, Pro-481 to Leu-486.	L0665: 3, S0328: 3, H0518: 3, H0423: 3, S0358: 2, H0622: 2, H0641: 2, L0763: 2, L0663: 2, L0664: 2, H0689: 2, H0522: 2, H0555: 2, H0422: 2, H0624: 1, H0585: 1, H0657: 1, H0671: 1, H0402: 1, S0376: 1, H0580: 1, S0278: 1, H0549: 1, H0602: 1, H0586: 1, H0069: 1, H0635: 1, H0581: 1, H0546: 1, H0510: 1, H0179: 1, H0271: 1, H0644: 1, H0606: 1, H0090: 1, H0634: 1, H0551: 1, H0488: 1, H0509: 1, L0640: 1, L0800: 1, L0662: 1, L0804: 1, L0607: 1, L0657: 1, L0809: 1, L0790: 1, L0666: 1, H0593: 1, H0684: 1, H0672: 1, H0710: 1, S0434: 1, S0436: 1 and S0196: 1.	12p12.3-p12.1	103950, 112410,

								150100, 168470, 190070, 190070, 200990, 602096
							12p12.3-p12.1	103950, 112410, 150100, 168470, 190070, 190070, 200990, 602096
						L0748: 34, L0777: 15, S0438: 11, S0192: 11, L0608: 7, H0331: 6, H0574: 6, L0771: 6, S0027: 6, L0756: 6, H0632: 5, L0731: 5, S0360: 4, H0427: 4, L0662: 4, L0744: 4, L0779: 4, L0757: 4, S0242: 4, S0354: 3, S0408: 3, H0494: 3, H0509: 3, L0770: 3, L0775: 3, L0809: 3, L0666: 3, H0519: 3, H0648: 3, S3014: 3, S0028: 3, L0750: 3, H0661: 2, S0442: 2, S0358: 2, S0376: 2, S0444: 2, H0013: 2, S0280: 2, H0309: 2, H0545: 2, H0510: 2, H0032: 2, H0551: 2, S0142: 2, S0422: 2, L0774: 2, L0806: 2,
					Ala-14 to Asp-19, Lys-92 to Arg-110.			
				2839				
			3 - 578					
		664						
	1038718							
HVCCQ82								

		L0776: 2, L0518: 2, L0532: 2, S0374: 2, H0547: 2, H0435: 2, H0696: 2, S0206: 2, S0032: 2, L0755: 2, L0758: 2, H0668: 2, S0194: 2, H0170: 1, H0685: 1, S0116: 1, H0638: 1, H0339: 1, S0045: 1, S0278: 1, S6022: 1, H0586: 1, H0497: 1, H0486: 1, L0021: 1, H0003: 1, H0147: 1, H0421: 1, H0546: 1, S0050: 1, H0014: 1, H0015: 1, S0051: 1, H0355: 1, H0375: 1, H0031: 1, H0628: 1, H0038: 1, S0014: 1, S0466: 1, S0440: 1, H0633: 1, H0646: 1, S0344: 1, S0210: 1, S0002: 1, L0371: 1, L0638: 1, L0772: 1, L0373: 1, L0764: 1, L0522: 1, L0803: 1, L0526: 1, L0545: 1, L0787: 1, L0790: 1, L0663: 1, H0520: 1, H0593: 1,				

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HTGFP54	1038915	665	22 - 528	2840	H0435: 2, S0218: 1 and H0415: 1.			
HBODF41	1039017	666	1 - 2418	2841	L0747: 26, L0740: 20, L0748: 18, L0752: 14, L0745: 13, L0599: 11, L0659: 8, H0509: 7, L0756: 7, L0777: 7, S0222: 6, S0010: 6, L0764: 6, L0776: 6, L0666: 6, L0754: 6, L0746: 6, H0013: 5, S0346: 5, H0050: 5, L0750: 5, L0758: 5, S0360: 4, H0574: 4, H0632: 4, S0280: 4, L0471: 4, H0039: 4, H0622: 4, L0766: 4, L0774: 4, L0783: 4, H0445: 4, L0366: 4, H0586: 3, H0251: 3, H0014: 3, T0010: 3, H0644: 3, L0769: 3,			


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L0751: 3, L0731: 3,
L0759: 3, L0596: 3,
S0418: 2, S0358: 2,
S0376: 2, H0580: 2,
H0393: 2, H0392: 2,
H0592: 2, H0427: 2,
H0052: 2, N0006: 2,
H0024: 2, H0266: 2,
H0428: 2, H0553: 2,
H0633: 2, S0142: 2,
L0598: 2, L0763: 2,
L0646: 2, L0662: 2,
L0803: 2, L0775: 2,
L0809: 2, H0144: 2,
L0438: 2, H0690: 2,
H0435: 2, H0670: 2,
H0651: 2, H0539: 2,
S0378: 2, S3014: 2,
L0749: 2, S0031: 2,
S0434: 2, L0605: 2,
L0591: 2, S0192: 2,
H0506: 2, H0624: 1,
T0002: 1, S0342: 1,
T0049: 1, H0650: 1,
S0212: 1, S0001: 1,
H0384: 1, H0662: 1,
S0356: 1, S0442: 1,
S0354: 1, S0444: 1,

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HRODW53	1039068	667	45 - 494	2842	Arg-115 to Gln-127, Leu-137 to Val-150.	L0748: 14, L0766: 11, L0777: 5, L0794: 4, L0803: 4, L0776: 3, L0747: 3, L0749: 3, L0791: 2, L0438: 2, H0435: 2, L0779: 2, L0780: 2, S0192: 2, L0442: 1, S6024: 1, S0134: 1, H0583: 1, S0222: 1, H0421: 1, H0235: 1, H0620: 1, H0598: 1, H0059: 1, T0041: 1, S0426: 1, L0764: 1, L0662: 1, L0774: 1, L0805: 1, L0659: 1, L0809: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, H0659: 1, H0670: 1, H0648: 1, L0740: 1,	

HPAMC60	1039290	668	1 - 1242	2843	Pro-7 to Pro-17, Leu-20 to Gly-26, Leu-48 to Val-54, Pro-65 to Asn-70, Glu-90 to Ala-95, Ala-102 to Gln-116, Glu-122 to Leu-137, Val-183 to Leu-192, Ala-235 to Ile-256, Gly-264 to Asp-270, Phe-282 to Ile-288, Arg-309 to Ala-314, Asn-330 to Asp-336, Ala-338 to Asp-344, Lys-358 to Lys-367.	L0750: 1, L0758: 1, S0106: 1 and S0446: 1. H0682: 1	15q22	102578, 109700, 151670, 154550, 601780
HLMHM83	1039491	669	155 - 745	2844	Val-43 to Tyr-48, Pro-50 to Ser-57, Thr-75 to Gly-83, Tyr-95 to Asn-105, Tyr-155 to Trp-163.	H0617: 7, L0771: 6, S0408: 4, S0358: 3, H0638: 2, L0761: 2, L0764: 2, L0655: 2, L0634: 2, L0666: 2, H0435: 2, L0751: 2, L0777: 2, H0506: 2, H0650: 1, H0254: 1, H0255: 1, S0444: 1, H0351: 1, H0549: 1, H0600: 1, H0592: 1, L0022: 1, H0744: 1,		

HOUDK70	1039538	670	84 - 1142	2845	Phe-27 to Gly-32, Tyr-45 to Glu-57, Gly-80 to Asn-89, Ser-182 to Pro-187, Asp-270 to Ser-278, Tyr-288 to Trp-293.	H0204: 1, H0231: 1, S0440: 1, L0800: 1, L0643: 1, L0648: 1, L0662: 1, L0776: 1, L0664: 1, S0216: 1, H0690: 1, H0672: 1, S0378: 1, S0406: 1, H0555: 1, L0747: 1 and S0436: 1.	L0748: 13, L0731: 8, H0046: 7, L0740: 7, L0758: 7, L0766: 6, L0665: 5, L0747: 5, L0749: 5, H0135: 4, L0769: 4, L0776: 4, L0659: 4, L0438: 4, L0752: 4, L0757: 4, S0436: 4, H0265: 3, S0222: 3, S0474: 3, H0424: 3, H0040: 3, L0662: 3, L0783: 3, H0672: 3, H0521: 3, L0439: 3, L0750: 3, H0556: 2, H0717: 2, L0415: 2, S0360: 2, H0486: 2, H0575: 2, H0581: 2, H0251: 2, L0738: 2, L0483: 2, H0494: 2, S0440: 2, L0761: 2, L0794: 2,		

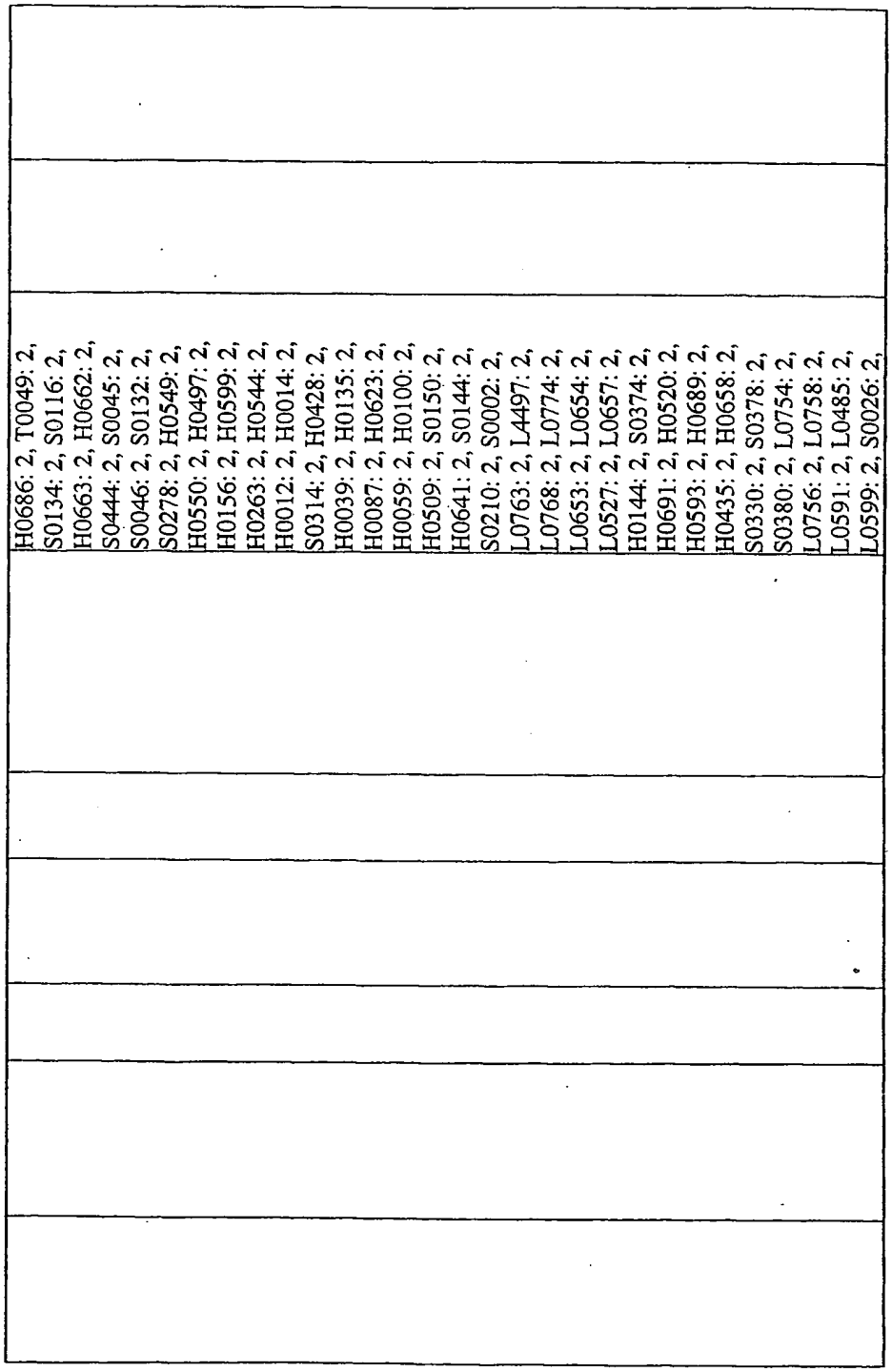
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HCYBI10	1039579	671	2 - 1042	2846	Pro-29 to Ile-35, Gly-49 to Thr-90, Pro-113 to Val-123, Glu-129 to Lys-146, Glu-151 to Arg-163, Leu-166 to Arg-179.	L0771: 17, H0539: 6, S0440: 3, L0805: 3, L0776: 3, H0547: 3, S0406: 3, L0779: 3, H0012: 2, L0764: 2, L0666: 2, L0663: 2, H0689: 2, L0748: 2, L0758: 2, H0686: 1, S0442: 1, H0549: 1, T0114: 1, H0052: 1,		

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HMEFK29	1039652	672	643 - 999	2847		H0402: 2, H0570: 1, H0266: 1 and H0666: 1.		
HAOSK79	1039663	673	48 - 659	2848	Asp-10 to Gly-17, Asp-38 to Ser-44, Asn-70 to Thr-79, Gly-81 to Ser-91, Lys-94 to Ala-102, Asp-110 to Ile-116, Asp-152 to Leu-157, Pro-172 to Glu-177.	L0748: 28, L0758: 13, L0769: 7, L0766: 7, S0026: 7, L0749: 6, H0266: 5, H0616: 4, L0750: 4, L0362: 4, H0341: 3, H0658: 3, L0747: 3, H0686: 2, H0318: 2, H0413: 2, H0494: 2, L0646: 2, H0659: 2, L0751: 2, L0731: 2, L0759: 2, L0588: 2, T0002: 1, H0656: 1, H0484: 1, H0661: 1, L0481: 1, H0125: 1, S0045: 1, H0351: 1, H0013: 1,		

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HPDRV42	1039689	674	3 - 1649	2849	Glu-31 to Pro-39, Thr-75 to Glu-80, Ala-131 to Gly-140, Ala-156 to Ala-165, Arg-184 to Phe-189, Asn-221 to Phe-228, Glu-239 to Glu-245, Ser-253 to Asp-261, Thr-267 to Thr-272, Thr-292 to Asp-297, Tyr-313 to Asn-325, Glu-385 to Leu-393,	H0521: 23, S0360: 15, H0046: 14, S0126: 13, L0747: 12, H0551: 11, H0318: 10, S0328: 9, H0542: 9, H0580: 8, H0486: 8, H0581: 8, H0615: 8, S0440: 8, H0660: 8, S0434: 8, H0543: 8, L0664: 7, H0556: 6, S0212: 6, H0494: 6, L0663: 6, S0358: 5, S0476: 5,	15q15	177070, 182500, 218000, 227220, 243500, 600839, 601800

Tyr-400 to Lys-410, Pro-413 to Gly-420, Lys-454 to Leu-463, Pro-501 to Gly-514, Gln-535 to Leu-549.	H0013: 5, H0457: 5, H0553: 5, H0673: 5, H0696: 5, S0406: 5, L0740: 5, L0731: 5, L0596: 5, H0585: 4, H0661: 4, S0418: 4, S0356: 4, S0408: 4, H0575: 4, H0620: 4, H0617: 4, L0764: 4, L0666: 4, L0665: 4, H0519: 4, S3014: 4, S0027: 4, L0752: 4, H0265: 3, H0713: 3, H0657: 3, H0341: 3, H0671: 3, H0638: 3, S0420: 3, S0354: 3, H0619: 3, H0411: 3, H0370: 3, H0586: 3, H0587: 3, H0597: 3, L0471: 3, H0687: 3, S0250: 3, S0003: 3, S0142: 3, H0529: 3, L0662: 3, L0766: 3, L0651: 3, L0659: 3, H0690: 3, S0152: 3, H0436: 3, S0028: 3, L0748: 3, L0750: 3, L0779: 3, L0755: 3, L0757: 3, H0445: 3, S0011: 3, H0423: 3,					


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HOPJD35	1039703	675	2590 - 1349	2850	Ser-1 to Pro-16, Asn-40 to Gly-46, Pro-48 to Arg-53, Lys-64 to Pro-72, Val-87 to Asp-93, Asp-109 to Tyr-118, Glu-157 to Pro-172, Pro-178 to Gly-188, Glu-252 to Leu-263, Thr-266 to Leu-273, Glu-296 to Ala-310, Glu-312 to Gln-318, Glu-324 to Asn-340, Glu-344 to Gly-373, Glu-383 to Asn-395, Val-399 to Glu-414.	L0662: 7, H0013: 5, L0766: 5, L0803: 4, L0655: 4, L0665: 4, L0740: 4, L0731: 4, H0677: 4, T0042: 3, L0776: 3, L0809: 3, H0519: 3, L0750: 3, L0759: 3, H0543: 3, H0170: 2, L0470: 2, H0341: 2, S0360: 2, H0266: 2, H0551: 2, L0351: 2, H0529: 2, L0646: 2, L0521: 2, L0651: 2, L0659: 2, L0663: 2, L0664: 2, H0547: 2, H0659: 2, L0602: 2, H0518: 2, H0522: 2, S0406: 2, L0748: 2, L0747: 2,		

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HTFNP84	1039748	676	70 - 1227	2851	Tyr-11 to Val-16, Glu-37 to Arg-42, Asn-50 to Arg-58, Leu-82 to Leu-96, Glu-112 to Gln-120.	AR096: 1, AR089: 1, AR055: 1, AR053: 1, AR033: 1, AR061: 1, AR060: 0, AR104: 0, AR039: 0, AR052: 0 L0766: 16, S0440: 7, L0646: 7, H0547: 6, H0659: 5, L0749: 5, L0759: 5, H0650: 4, S0410: 4, S0422: 4, S0374: 4, H0341: 3, H0032: 3, H0040: 3, H0529: 3, L0804: 3,		

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HTHDT76	1039871	677	1 - 603	2852	Gln-16 to Ser-24.	S0420: 1, H0600: 1, H0587: 1, H0013: 1, H0428: 1, H0644: 1, H0063: 1, H0386: 1 and L0747: 1.		
HSYEC21	1039891	678	411 - 2372	2853		H0521: 9, L0439: 9, L0747: 8, L0655: 6, L0748: 6, S0212: 5, S6028: 4, L0483: 4, L0794: 4, L0766: 4,	12q21-q23	124200, 147440, 160781, 217300, 235800,

600175, 600808		H0040: 3, H0634: 3, S0386: 3, L0800: 3, L0662: 3, L0665: 3, L0438: 3, S0028: 3, L0740: 3, H0318: 2, H0544: 2, S0051: 2, H0615: 2, H0163: 2, H0494: 2, L0645: 2, L0649: 2, L0803: 2, L0804: 2, L0659: 2, H0547: 2, H0689: 2, S0380: 2, H0522: 2, L0743: 2, L0744: 2, L0749: 2, L0596: 2, L0366: 2, S0242: 2, S0114: 1, H0583: 1, H0650: 1, H0656: 1, H0341: 1, S0001: 1, H0483: 1, H0402: 1, H0638: 1, S0356: 1, S0354: 1, S0358: 1, S0408: 1, H0580: 1, L0103: 1, S0045: 1, H0640: 1, H0586: 1, H0360: 1, H0643: 1, H0486: 1, H0013: 1, H0036: 1, H0263: 1, H0546: 1, H0012: 1, S0050: 1, S0388: 1, H0399: 1, H0510: 1,				

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HKGCO25	1040384	679	3 - 719	2854	Glu-53 to Phe-58, Arg-70 to Phe-79, Ile-94 to Val-102, Thr-106 to Thr-118, Glu-139 to Asp-149, Asp-183 to Lys-215.			
HNOJN70	1040385	680	273 - 425	2855		L0766: 12, L0759: 8, H0171: 6, L0754: 6, L0731: 6, H0624: 5, H0584: 5, H0031: 5, S0422: 5, L0663: 5, H0547: 5, L0756: 5, S0276: 5, H0686: 4, S0474: 4, L0662: 4,		

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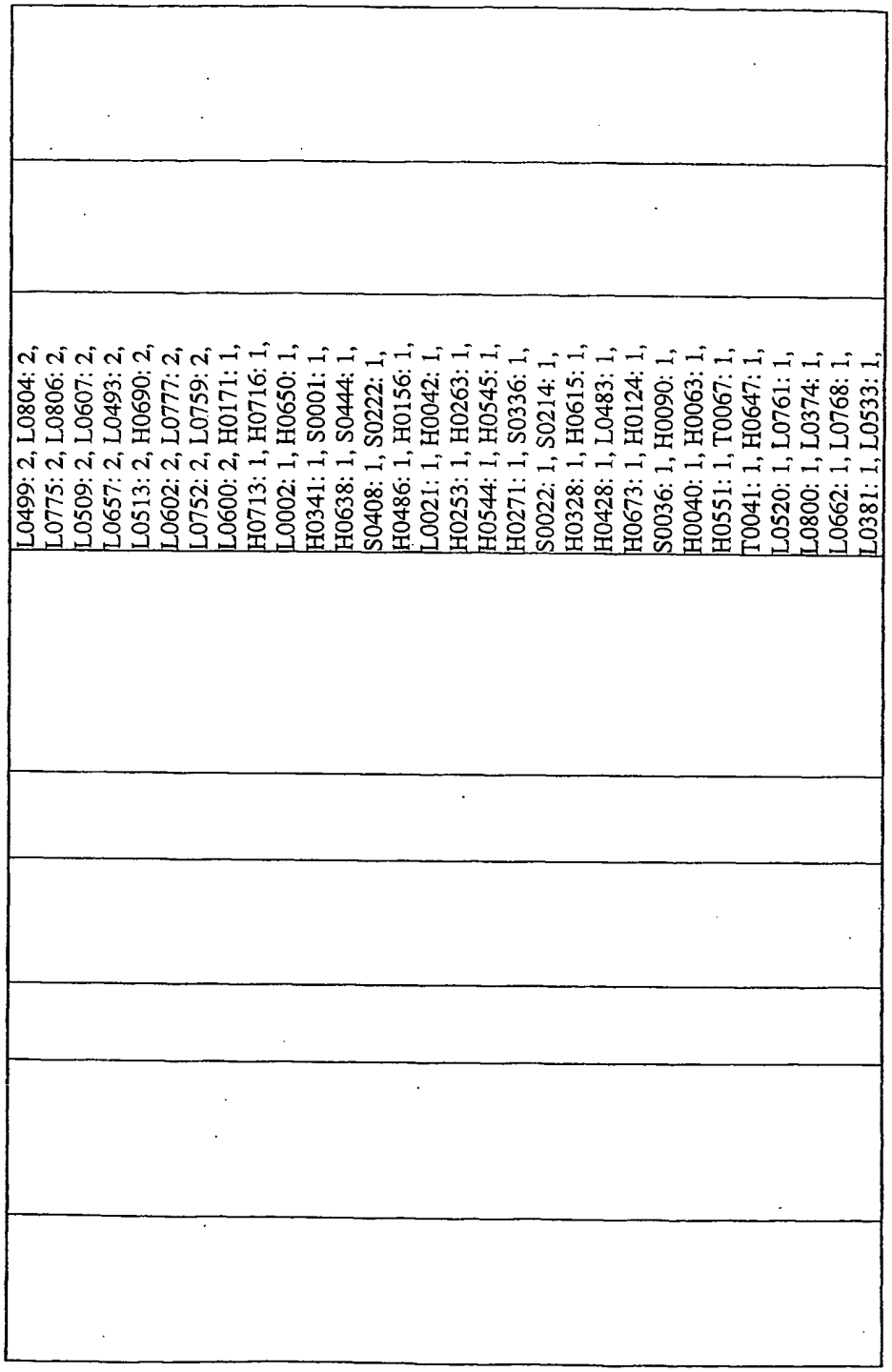
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					Ser-23 to Ser-34, Lys-48 to Glu-53, Cys-78 to Asn-88, Ala-108 to Asp-113, Glu-124 to Pro-131.	L0439: 13, L0438: 8, L0731: 7, L0756: 6, L0803: 4, L0754: 4, L0750: 4, S0358: 3, H0716: 2, H0427: 2, L0766: 2, L0659: 2, L0783: 2, H0435: 2, H0660: 2, L0755: 2, L0758: 2, S0436: 2, S0342: 1, H0650: 1, L0443: 1, S0442: 1, S0360: 1, H0587: 1, H0632: 1, L0021: 1, T0082: 1, H0051: 1, S6028: 1, H0090: 1, H0646: 1, L0640: 1, L0770: 1, L0794: 1, L0804: 1, L0805: 1, L0809: 1, L0647: 1,	
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			681				
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HJBDC89	1040569	682	1418 - 726	2857	Gly-11 to Pro-17, Ser-61 to Gly-68, Val-103 to Leu-108, His-157 to Pro-162, Glu-197 to Pro-203, Gly-207 to Thr-213.	L0439: 5, L0749: 5, L0770: 4, L0764: 4, L0438: 4, S0126: 4, L0758: 4, S0358: 3, L0768: 3, L0774: 3, L0783: 3, H0660: 3, S0152: 3, L0752: 3, L0755: 3, L0731: 3, L0592: 3, S0026: 3, H0656: 2, S0360: 2, S0010: 2, H0050: 2, H0169: 2, T0042: 2, L0775: 2, L0518: 2, L0809: 2, L0664: 2, L0665: 2, H0672: 2, L0754: 2, H0543: 2, L0615: 1, H0686: 1, S0116: 1, S0420: 1, S0408: 1, T0112: 1, H0156: 1, H0575: 1, H0706: 1, H0546: 1, H0572: 1, H0123: 1, L0471: 1, H0024: 1, H0373: 1, S0388: 1, T0010: 1, H0510: 1,	L0789: 1, L0666: 1, L0663: 1, H0690: 1, H0659: 1, H0670: 1, S0328: 1, S0028: 1, L0747: 1 and L0752: 1.	14q24.1-q24.3	104311, 109150, 182600, 245200, 601208

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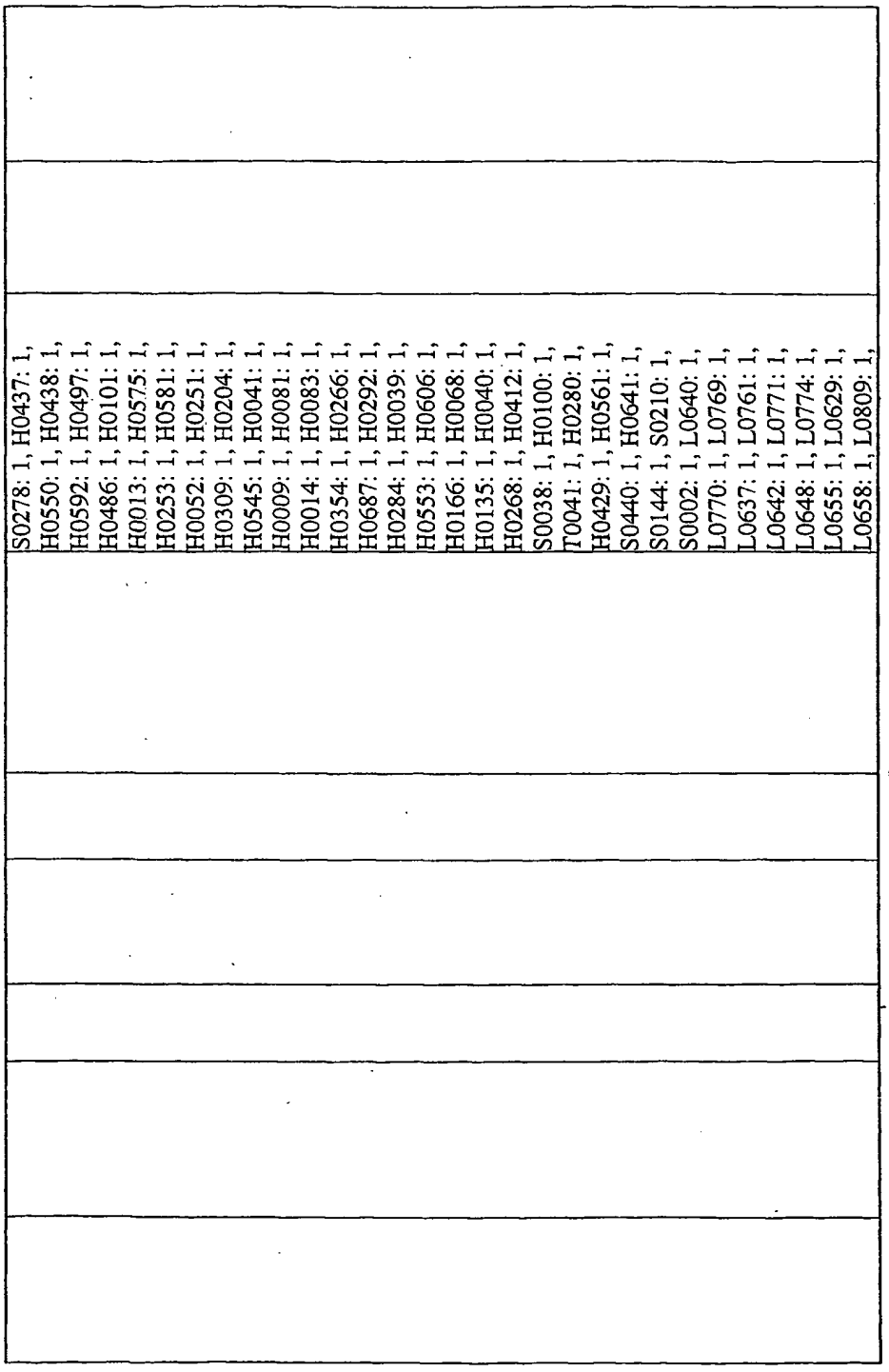
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HOCOF27	1040631	685	76 - 687	2860		H0264: 1, L0766: 1, H0660: 1 and H0539: 1.			
HSPSE88	1040694	686	2 - 922	2861		L0749: 7, S0026: 6, H0616: 4, L0766: 4, L0803: 4, L0665: 4, L0748: 4, L0740: 4, H0624: 3, H0170: 3, H0657: 3, S0358: 3, S0003: 3, L0455: 3, L0498: 3, L0809: 3, L0666: 3, H0659: 3, H0423: 3, S0442: 2, H0083: 2, H0038: 2, L0500: 2, L0764: 2,	11p15	108985, 186921, 602092	


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HOGDP49	1041049	691	1 - 489	2866	Pro-6 to Gly-12, Ala-30 to Arg-35, Arg-90 to Thr-102, Phe-112 to Asp-120, Asn-157 to Thr-163.	H0265: 2, H0556: 1, S0418: 1, S0376: 1, T0060: 1, S0280: 1, H0615: 1, H0628: 1, H0059: 1, H0100: 1, L0438: 1, S0126: 1, H0435: 1 and H0660: 1.		
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HSPSI42	1042462	694	3684 - 283	2869	Pro-5 to Ser-12,	L0666: 16, L0751: 15,	Xp11.23	300047,

			Arg-20 to Lys-35, Gly-45 to Gly-56, Pro-81 to Cys-99, Arg-195 to Ser-207, Ser-287 to Pro-292, Thr-301 to Gly-306, Asn-336 to Met-341, Ser-357 to Arg-364, Cys-416 to Asp-430, Gln-450 to Asp-455, Pro-509 to Thr-516, Arg-523 to Gly-529, Lys-541 to Lys-546, Ser-623 to Arg-634, Tyr-636 to Gln-642, Asp-661 to Leu-671, Glu-692 to Lys-703, Gln-734 to Tyr-742, Thr-792 to Ile-798, Pro-806 to Thr-811, Phe-875 to Gly-880, Ser-886 to Gln-891, Val-897 to Glu-903, Glu-926 to Asn-932, Arg-945 to Asp-950, Pro-952 to Lys-958, Gly-991 to Gly-1001, Pro-1019 to Trp-	L0596: 8, S0010: 7, L0754: 7, L0731: 7, L0758: 7, L0595: 7, S0007: 6, L0741: 6, L0591: 6, H0556: 5, H0622: 5, L0662: 5, L0665: 5, L0743: 5, L0748: 5, L0745: 5, L0747: 5, H0657: 4, L0771: 4, L0663: 4, L0664: 4, H0689: 4, L0742: 4, L0439: 4, L0592: 4, L0362: 4, S0276: 4, H0661: 3, H0176: 3, H0545: 3, H0178: 3, H0424: 3, L0369: 3, L0766: 3, L0659: 3, H0547: 3, S0406: 3, L0750: 3, L0599: 3, L0361: 3, L0601: 3, H0543: 3, T0049: 2, H0484: 2, S0420: 2, S0360: 2, L0717: 2, H0370: 2, H0333: 2, H0635: 2, H0318: 2, H0196: 2, H0085: 2, H0546: 2, H0050: 2, T0010: 2, H0428: 2, H0213: 2, H0674: 2, H0591: 2,	300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060

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HWMBA10	1042859	696	39 - 476	2871	Pro-18 to Pro-24, Thr-45 to Gly-54, Ser-60 to Ser-67, Ala-82 to His-92, Pro-94 to Ser-106, Pro-126 to Arg-133.	S0410: 52, H0617: 5, L0774: 4, S0408: 3, H0360: 3, H0486: 3, L0809: 3, S0380: 3, L0751: 3, L0749: 3, L0361: 3, S0358: 2, S0376: 2, S0360: 2, L0764: 2, L0779: 2, L0752: 2, H0484: 1, H0483: 1, S0442: 1, H0734: 1, H0370: 1, H0257: 1, L0623: 1, H0599: 1, H0575: 1,	12q22	147440, 201470, 235800, 273300

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HACNG39	1042871	697	2534 - 900	2872	Asp-16 to Ser-25, Arg-52 to Lys-74, Ile-102 to Asn-109, Asp-138 to Gly-149, Ser-161 to Thr-168, Asn-225 to Arg-235, Asn-247 to Lys-256, His-302 to Cys-311, Ile-324 to Ser-347, Cys-355 to Tyr-361, Cys-365 to Pro-375, Ile-389 to Gln-398, Ile-429 to His-502, Thr-505 to Asp-533, Lys-539 to Ser-545.	L0805: 5, L0766: 4, H0341: 3, S0440: 3, H0650: 2, H0656: 2, H0156: 2, S0003: 2, H0591: 2, H0264: 2, H0560: 2, L0598: 2, S0374: 2, L0438: 2, L0749: 2, L0752: 2, H0423: 2, H0685: 1, H0449: 1, H0458: 1, L0005: 1, S0444: 1, S0408: 1, H0580: 1, H0619: 1, H0486: 1, H0013: 1, H0581: 1, H0194: 1, T0103: 1, H0083: 1, H0551: 1, H0477: 1, H0488: 1,	

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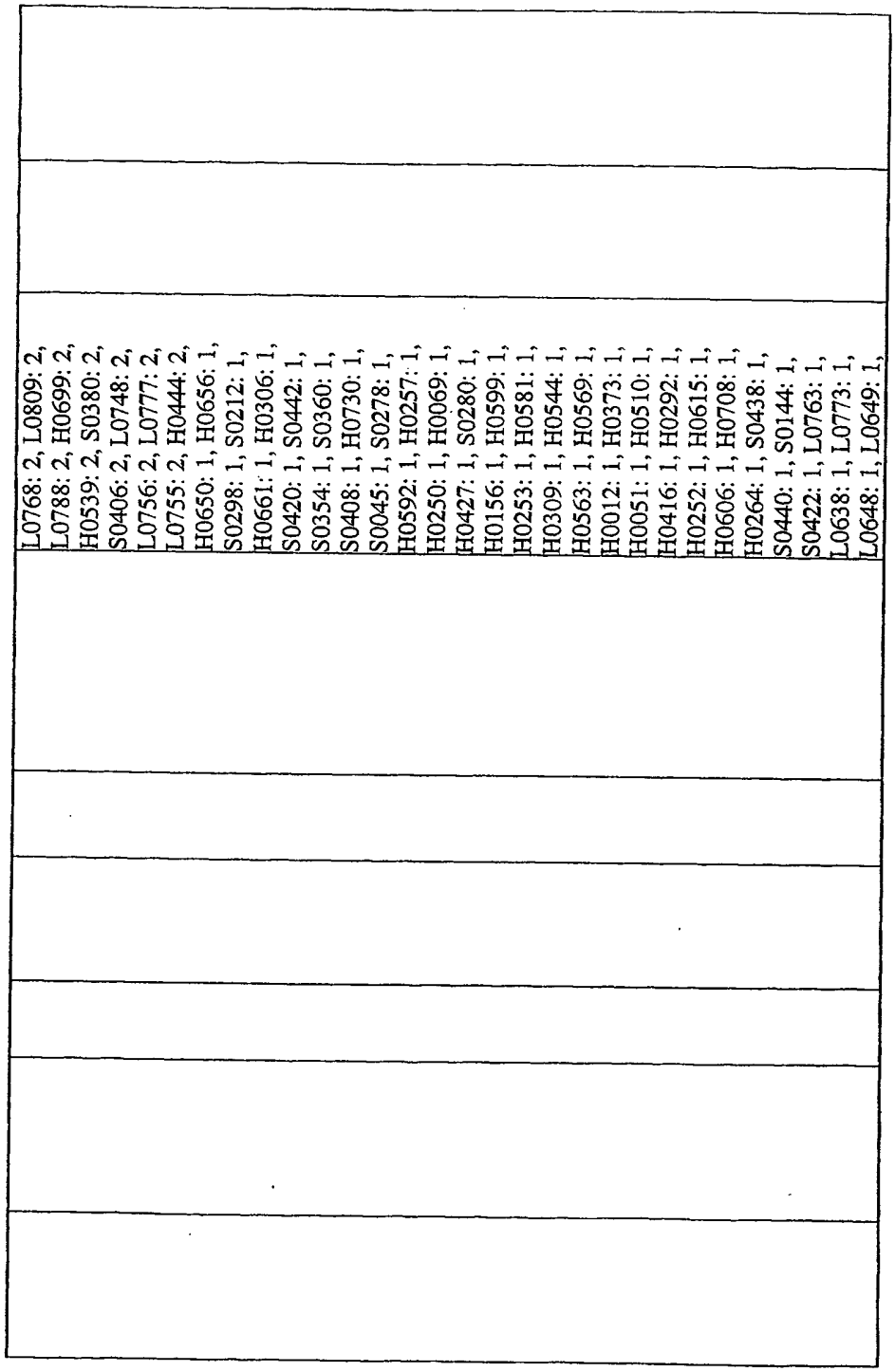
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HVVBC43	1043553	702	2754 - 2083	2877	Arg-3 to Thr-10, Arg-26 to Gly-42, Asn-46 to Ser-59, Glu-106 to Ala-122, Ser-129 to Asp-139, Thr-144 to Thr-156, Leu-197 to Thr-206, Pro-208 to Tyr-219.	L0747: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1 and H0506: 1.	4p16.3		134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965
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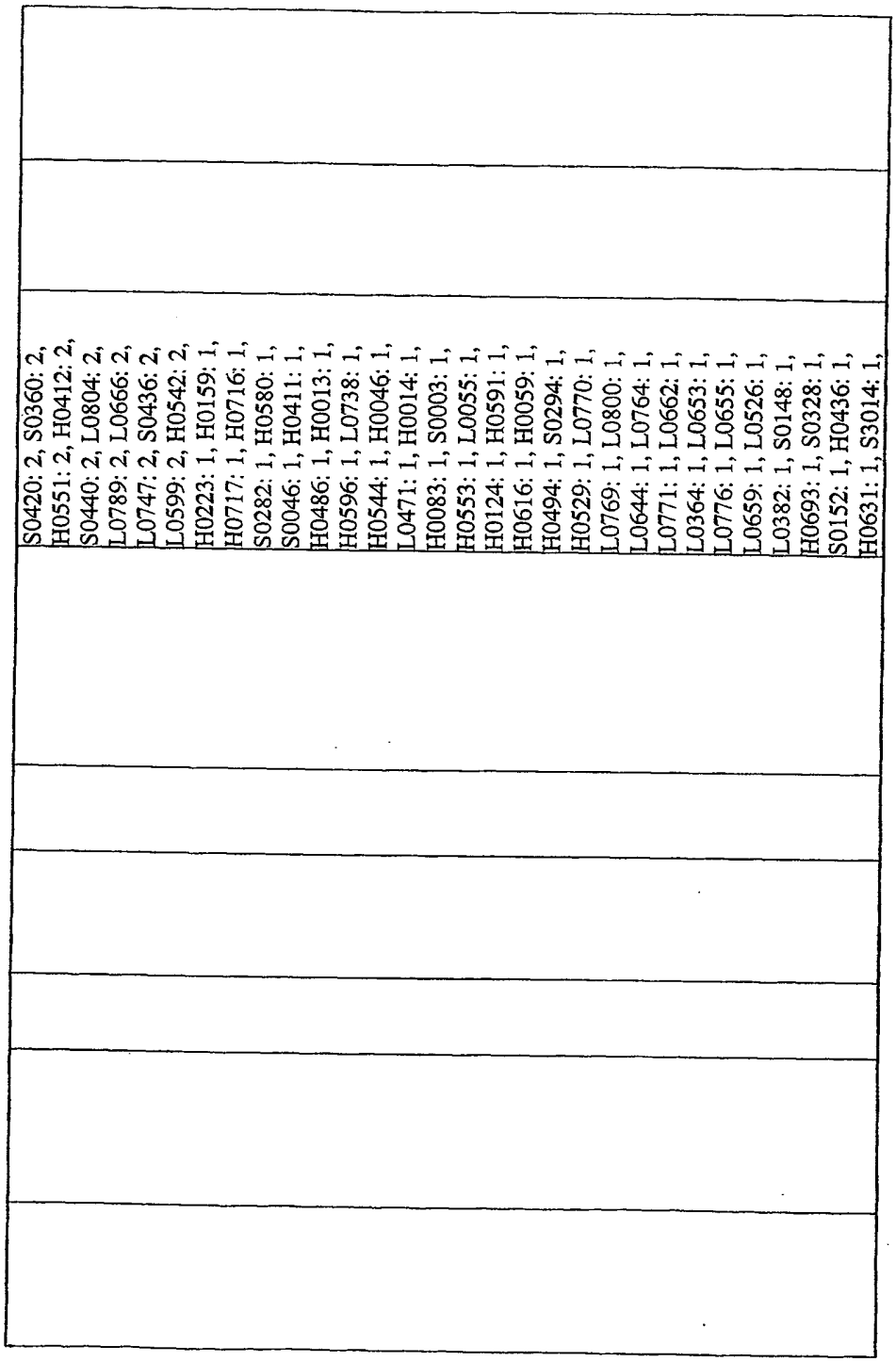
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HE9ML74	1044760	709	3 - 959	2884	Asp-8 to Asp-20, Phe-43 to Arg-52, Ser-102 to Asp-107, His-109 to Asp-124, Phe-131 to Lys-136, Pro-143 to Pro-149, Lys-189 to Leu-200, Asn-305 to Trp-310.		AR033: 5, AR060: 4, AR096: 4, AR089: 2, AR053: 1, AR061: 1, AR052: 1, AR055: 0, AR104: 0 L0803: 9, L0758: 7, L0439: 6, L0740: 5, L0766: 4, L0666: 4, L0663: 4, L0754: 4, L0747: 4, L0804: 3, H0144: 3, L0750: 3, L0756: 3, L0752: 3, L0600: 3, S0003: 2, L0455: 2, S0366: 2,		

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HPDRB76	1044762	710	145 - 855	2885	Glu-14 to Gly-20, Gly-30 to Ala-37, Glu-121 to Leu-127, Lys-152 to Tyr-157, Glu-159 to Thr-173, Leu-177 to Lys-186.	L0747: 8, S0358: 6, L0766: 5, L0774: 5, L0750: 5, L0666: 4, S0406: 4, L0731: 4, H0341: 3, H0696: 3, L0748: 3, L0758: 3, H0650: 2, S0356: 2, S0410: 2, L0717: 2, H0014: 2, L0667: 2, L0768: 2, L0775: 2, L0659: 2, L0783: 2, H0659: 2, H0648: 2, S0330: 2, H0539: 2, L0742: 2, L0439: 2, L0745: 2, L0757: 2, L0759: 2, L0592: 2, L0599: 2, L0595: 2, H0657: 1, S0212: 1, H0662: 1, H0125: 1, S0420: 1, S0354: 1, S0444: 1, S0132: 1, S0476: 1, H0370: 1, L0181: 1, H0069: 1, H0427: 1, L0021: 1, H0575: 1, H0318: 1, S0214: 1, H0039: 1, H0651: 1, S0013: 1, H0696: 1, H0436: 1, L0779: 1, L0608: 1, S0446: 1 and H0506: 1.	1p34	130500, 133200, 138140, 168360, 171760, 171760, 176100, 176100, 178300, 230000, 255800

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HSYD155	1044769	711	231 - 1070	2886	Thr-52 to Glu-63, Lys-108 to Asn-118, Gly-148 to Ile-154, Glu-178 to Thr-183, Ala-185 to Arg-195, Lys-202 to Lys-207, Lys-209 to Arg-222, Ser-226 to Glu-233.	AR052: 16, AR053: 9, AR033: 5, AR089: 4, AR096: 3, AR060: 3, AR104: 2, AR055: 2, AR039: 1, AR061: 1 H0651: 11, L0794: 8, H0038: 5, L0805: 4, L0758: 4, S0358: 3, S0476: 3, L0766: 3, L0803: 3, L0665: 3, H0144: 3, H0521: 3, L0748: 3, L0740: 3, L0756: 3, H0222: 2,		

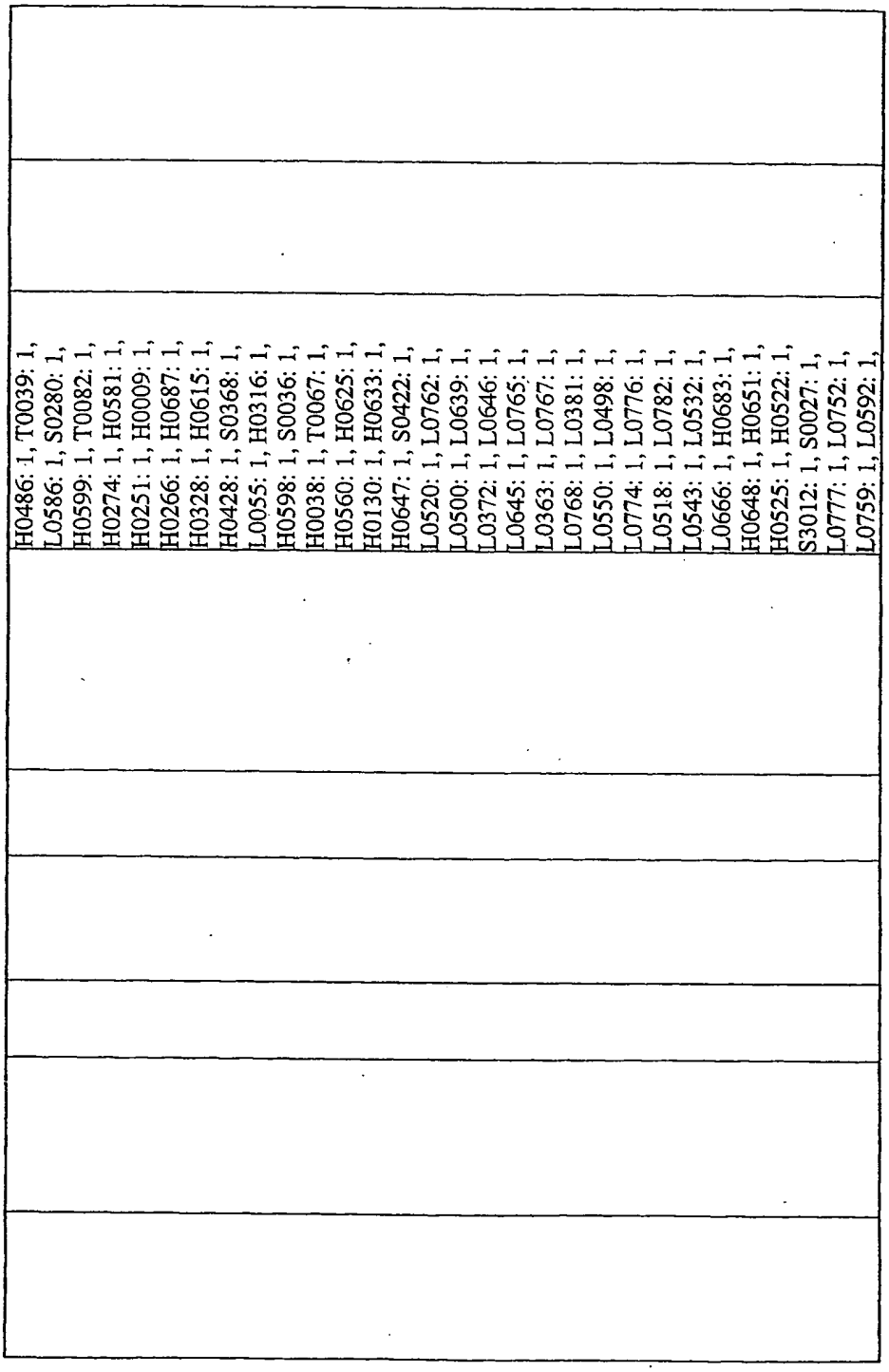

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HNOKX86	1044893	713	69 - 575	2888		L0740: 20, L0754: 14, L0742: 9, L0771: 7, L0748: 7, L0749: 7, L0752: 6, S0422: 5, L0770: 5, H0585: 4, S0360: 4, H0581: 4, L0769: 4, L0775: 4, S0374: 4, H0521: 4, L0747: 4, L0779: 4, L0753: 4, L0758: 4, H0295: 3, S0278: 3, S0440: 3, S0002: 3, L0649: 3, L0806: 3, S0126: 3, S0380: 3, S0434: 3, S0436: 3, S0026: 3, H0170: 2, H0661: 2, S0358: 2, S0045: 2, H0370: 2, H0442: 2, H0318: 2, S0474: 2, H0687: 2, S0003: 2, H0551: 2, S0438: 2, H0509: 2,		

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HPCTV49	1045379	715	34 - 444	2890	Ser-21 to Pro-28, Pro-36 to Ser-63, Gln-67 to Thr-83, Arg-88 to Thr-94, Pro-106 to Lys-111, Gly-125 to Gly-132.	H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1.		
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H0598: 1, S0036: 1,
H0038: 1, T0067: 1,
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H0130: 1, H0633: 1,
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S3012: 1, S0027: 1,
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HHGDK68	1045464	716	121 - 999	2891	Arg-128 to Asp-133, Lys-155 to Gln-164, Tyr-168 to Leu-174, Glu-190 to Leu-197, Pro-213 to Arg-224, Met-226 to Ser-241, Pro-247 to Ser-255.	L0361: 1, S0026: 1, H0667: 1 and H0542: 1.	22q13.1		103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
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HNTSV18	1045995	719	1 - 504	2894	Ala-3 to Gly-19, Arg-29 to Gly-34, Gly-41 to Pro-51, Tyr-90 to Gly-102, Pro-119 to Trp-124.	AR104: 6, AR033: 5, AR053: 5, AR089: 4, AR096: 3, AR060: 3, AR061: 1, AR055: 0, AR039: 0 H0144: 2, S0126: 2,		

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HWHGU08	1046137	720	2564 - 1749	2895	Ala-43 to Thr-51, Gly-104 to Arg-112.	S0412: 19, L0803: 10, S0003: 9, S0414: 6, L0770: 6, L0766: 6, L0663: 6, L0754: 6, S0406: 5, L0752: 5, S0222: 4, L0771: 4, H0144: 4, L0439: 4, L0731: 4, S0444: 3, L0717: 3, H0328: 3, L0662: 3, L0655: 3, S0330: 3, H0521: 3, L0748: 3, L0759: 3, H0556: 2, S0356: 2, S0354: 2, H0676: 2, S0408: 2, H0013: 2, H0575: 2, H0050: 2, H0266: 2, S0214: 2, H0428: 2, H0031: 2, H0674: 2, T0067: 2, L0764: 2, L0806: 2, L0805: 2, L0809: 2, L0666: 2, L0664: 2, L0665: 2, H0547: 2, H0435: 2, H0659: 2,	10p11.2-p12	600964, 602026

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HE6CR19	1046177	721	870 - 508	2896	Val-3 to Gly-14, Ser-65 to Asn-70.	AR089: 30, AR060: 18, AR039: 17, AR033: 16, AR096: 16, AR104: 13, AR055: 12, AR052: 12, AR053: 8, AR061: 8 L0731: 13, L0748: 11, L0747: 10, L0740: 6, L0763: 5, L0750: 5, L0770: 4, L0766: 4,	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300,

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HE9EJ82	1046856	722	3 - 173	2897	Glu-12 to Phe-17, Ser-44 to Asn-57.	H0659: 1, S0330: 1, S0380: 1, L0602: 1, H0710: 1, S0027: 1, L0753: 1, L0757: 1, L0759: 1, L0480: 1, H0665: 1, S0276: 1, H0422: 1 and S0384: 1.	1q21-q23	104770, 107300, 107670, 110700, 131210, 134638, 135940, 136132, 145001, 146740, 146740, 146740, 146790, 152445, 152445, 159001, 173610, 174000, 176310, 179755, 182860, 182860, 182860,
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HRADC23	1046980	723	49 - 339	2898		S0250: 2 and H0555: 1.			
HODHS68	1047137	724	516 - 1220	2899	Thr-26 to Ala-44, Pro-55 to His-71, Ser-76 to Cys-83, Asn-92 to Lys-104, Pro-149 to Tyr-158, Ser-208 to Asp-214, Glu-228 to Tyr-234.	L0748: 40, L0740: 39, L0754: 23, H0556: 19, H0620: 13, L0755: 12, L0731: 12, L0741: 11, S0002: 10, L0766: 10, L0439: 10, H0265: 9, H0013: 9, H0521: 9, L0747: 9, L0758: 8, H0599: 7, L0794: 7, L0751: 7, L0779: 7, L0777: 7, L0752: 7,	3q21		106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050,

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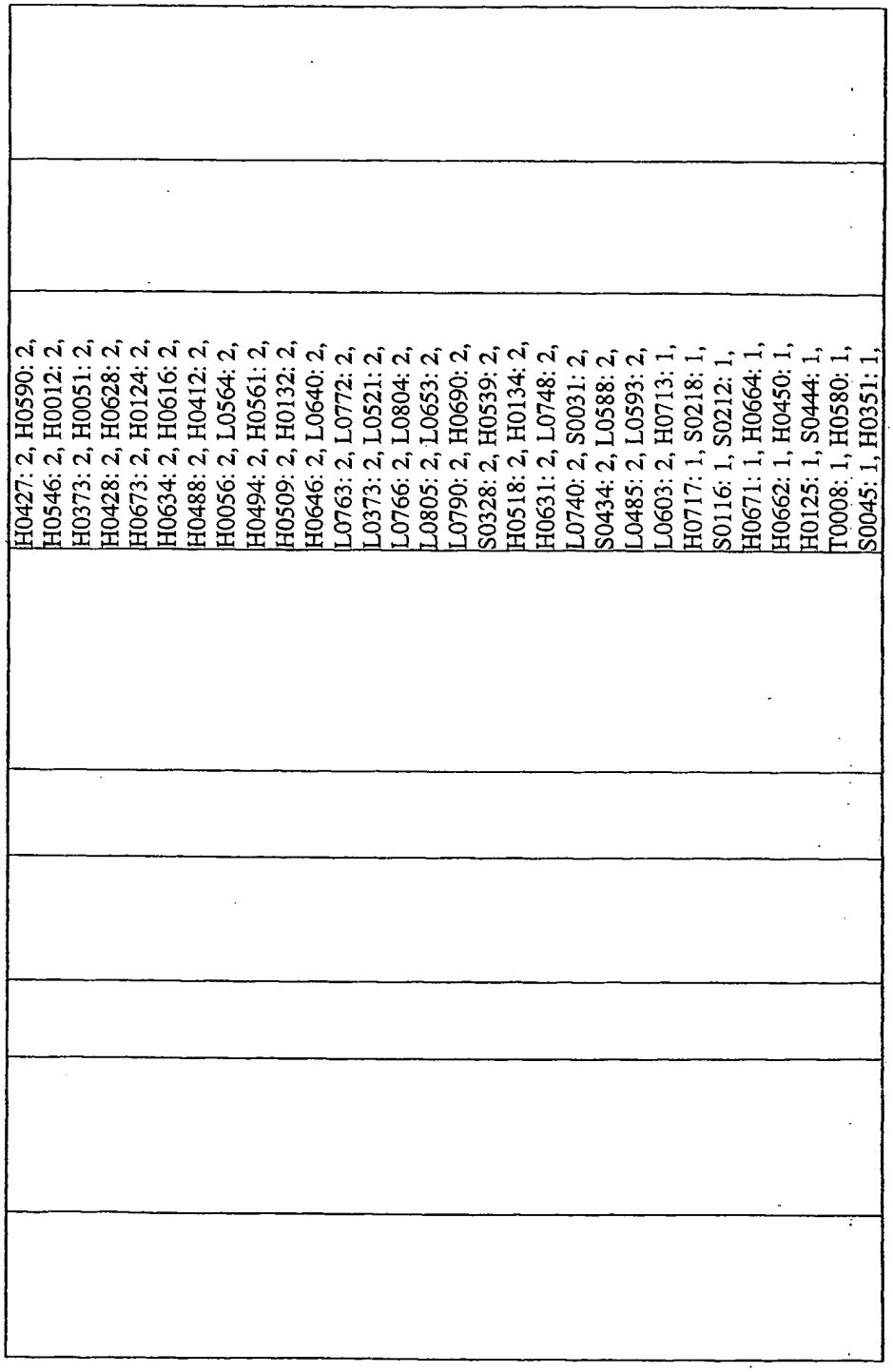
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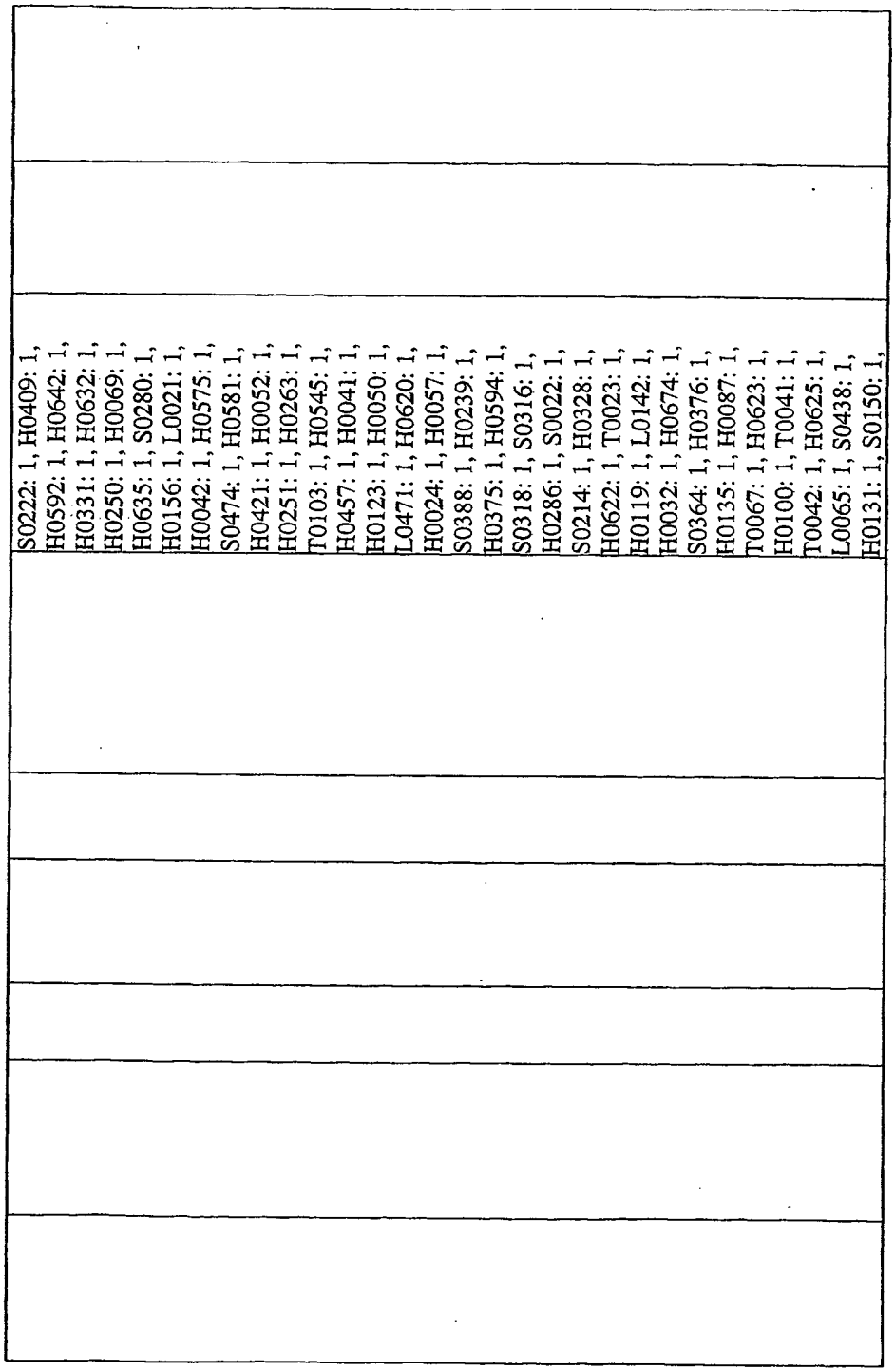
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HPIAN63	1047381	727	2 - 595	2902	Lys-1 to Leu-6, Lys-29 to Asn-39, Arg-110 to Arg-115, Lys-120 to Asn-125, Glu-153 to Leu-158, Pro-173 to Val-181.	L0752: 5, L0774: 4, L0663: 4, L0748: 4, L0751: 4, L0775: 3, L0757: 3, L0759: 3, S0360: 2, S0007: 2, H0687: 2, L0769: 2, L0761: 2, L0766: 2, L0806: 2, L0750: 2, L0777: 2, L0753: 2, L0755: 2, H0254: 1, S0420: 1, S0356: 1, H0392: 1, H0587: 1, L0021: 1, H0046: 1, H0178: 1, H0620: 1, S0050: 1, H0617: 1, H0673: 1, H0616: 1, S0144: 1, S0344: 1, L0637: 1, L0646: 1, L0374: 1, L0771: 1, L0767: 1, L0661: 1, L0629: 1, L0659: 1, L0783: 1, L0367: 1, L0368: 1, L0666: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0404: 1, H0436: 1, L0740: 1, L0749: 1, L0603: 1, H0422: 1, S0424: 1 and H0677: 1.	L0777: 13, L0794: 8,		

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HNSME49	1047403	728	1295 - 558	2903	Glu-16 to Gly-28, Glu-73 to Glu-78, Asp-94 to Ser-103, Lys-124 to Asp-129, Gln-149 to Arg-155, Ala-190 to Ser-233, Val-240 to Pro-246.	L0794: 6, H0685: 2, S0356: 2, H0090: 2, H0494: 2, L0766: 2, L0803: 2, L0654: 2, L0665: 2, H0435: 2, L0362: 2, H0556: 1, H0384: 1, H0484: 1, S0418: 1, H0497: 1, H0013: 1, S0010: 1, S0346: 1, S0049: 1, H0545: 1, H0375: 1, H0674: 1, L0455: 1, H0413: 1, L0639: 1, L0800: 1, L0376: 1,	

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			155 - 721					
		729						
	1047473							
HWEAC64								

HOCQI51	1047483	730	3 - 1016	2905	Gln-15 to Phe-20, Ser-49 to Tyr-54, Glu-111 to Glu-121, Arg-185 to Asp-190, Phe-206 to Asp-212, Glu-309 to Pro-314.	S0028: 1, H0707: 1 and H0543: 1.	L0794: 8, H0556: 4, H0046: 4, L0809: 3, L0748: 3, H0341: 2, S0356: 2, S0046: 2, H0100: 2, L0769: 2, L0659: 2, S0328: 2, L0742: 2, H0422: 2, H0265: 1, T0002: 1, S0418: 1, S0420: 1, S0354: 1, S0045: 1, L0717: 1, H0549: 1, S0222: 1, H0586: 1, H0156: 1, T0110: 1, H0150: 1, S0051: 1, H0594: 1, H0266: 1, S0250: 1, H0604: 1, S0364: 1, H0634: 1, H0412: 1, H0494: 1, H0561: 1, H0695: 1, H0529: 1, L0761: 1, L0667: 1, L0772: 1, L0643: 1, L0764: 1, L0771: 1, L0768: 1, L0766: 1, L0803: 1, L0629: 1, L0368: 1, L0788: 1, H0690: 1, H0682: 1, H0660: 1, S0152: 1, S0404: 1,

HOPKE15	1047634	731	3 - 434	2906	Met-18 to Tyr-45, Arg-56 to Thr-65, Gln-89 to Glu-107, Pro-109 to Ala-132.	L0747: 1, L0755: 1, H0445: 1 and H0542: 1. H0046: 9, L0766: 8, L0731: 4, S0360: 3, S0408: 3, H0529: 3, L0769: 3, L0608: 3, H0543: 3, H0656: 2, H0341: 2, S0046: 2, S0010: 2, H0318: 2, H0616: 2, S0150: 2, S0002: 2, L0803: 2, L0659: 2, S0374: 2, H0684: 2, S0328: 2, L0750: 2, L0752: 2, L0759: 2, H0170: 1, S0134: 1, H0657: 1, H0637: 1, H0580: 1, H0486: 1, T0040: 1, T0109: 1, L0021: 1, H0575: 1, H0581: 1, H0052: 1, H0266: 1, H0188: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0039: 1, H0553: 1, H0598: 1, H0163: 1, H0591: 1, H0038: 1, H0040: 1, T0067: 1, H0413: 1, S0464: 1, S0440: 1, L0598: 1, L0772: 1,		

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HMAEL73	1047646	732	748 - 2463	2907	Pro-41 to Gln-47, Thr-169 to Glu-174, Gly-252 to Glu-259, Pro-343 to Ser-348, Asn-379 to Ala-384, His-425 to Glu-432, Asn-505 to Asn-511, Arg-516 to Phe-522.	L0758: 6, L0731: 4, L0747: 3, S0342: 2, L0769: 2, L0768: 2, L0749: 2, L0615: 1, H0686: 1, H0125: 1, S0418: 1, S0354: 1, S0358: 1, S0360: 1, S0222: 1, H0613: 1, H0004: 1, H0510: 1, S6028: 1, H0615: 1, H0039: 1, H0494: 1, S0144: 1, L0762: 1,

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HNOKE42	1047663	733	2 - 445	2908	Arg-1 to Tyr-7, Arg-17 to Arg-23, Glu-40 to Phe-45, Thr-64 to Tyr-71, Arg-117 to Glu-127, Arg-141 to Ser-148.	H0551: 4, H0494: 4, H0561: 3, H0529: 3, H0521: 3, H0486: 2, L0471: 2, H0373: 2, H0510: 2, H0687: 2, H0553: 2, H0708: 2, H0560: 2, H0509: 2, L0794: 2, L0774: 2, H0547: 2, H0519: 2, H0539: 2, L0439: 2, L0754: 2, L0777: 2, H0685: 1, S0282: 1, S0418: 1, H0637: 1, H0485: 1, H0156: 1, H0530: 1, T0010: 1, S6028: 1, T0023: 1, H0212: 1, T0042: 1, L0763: 1, L0637: 1, L0768: 1, L0805: 1, L0530: 1, L0787: 1, S0148: 1, H0435: 1, H0670: 1, H0660: 1, H0710: 1, H0518: 1, H0522: 1, H0704: 1,	

						S0176: 1, L0748: 1, L0749: 1, L0731: 1 and L0758: 1.		
HOFAE31	1047670	734	2 - 220	2909	Glu-1 to Leu-8, Arg-38 to Cys-49.	H0414: 2		
HCLCX62	1047716	735	129 - 437	2910	Ala-1 to Leu-7, Ser-18 to Lys-23.	S0136: 25, L0665: 4, S0001: 1, H0662: 1, H0632: 1, H0594: 1, H0188: 1, H0598: 1, H0379: 1, S0294: 1, L0764: 1, L0521: 1, L0803: 1, L0805: 1, L0493: 1, L0514: 1, L0515: 1, L0659: 1, H0689: 1, H0683: 1, H0670: 1, H0672: 1, S0328: 1, H0539: 1, H0478: 1, L0777: 1, L0731: 1 and L0599: 1.		
HNOAC93	1047820	736	826 - 554	2911	Pro-12 to Pro-20, Leu-24 to Ser-31, Pro-34 to Pro-82, Arg-84 to Pro-91.	AR053: 18, AR089: 16, AR096: 15, AR033: 14, AR039: 12, AR060: 11, AR104: 11, AR055: 10, AR061: 6 H0251: 6, H0412: 2, H0295: 1, S0114: 1, H0657: 1, H0255: 1, H0663: 1, H0619: 1, S0222: 1, H0392: 1, H0333: 1, H0486: 1,	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850,

HMEJA45	1047848	737	1 - 399	2912	Phe-4 to Arg-11, Ala-16 to Ser-22, Cys-31 to Cys-39.	H0635: 1, H0318: 1, H0050: 1, H0051: 1, S0388: 1, S0051: 1, H0239: 1, H0688: 1, H0644: 1, H0181: 1, H0617: 1, H0606: 1, S0438: 1, L0769: 1, L0761: 1, L0803: 1, H0547: 1, S0126: 1, H0658: 1, H0672: 1, H0651: 1, S0404: 1, S0406: 1, H0436: 1, L0748: 1, L0751: 1 and S0276: 1.	AR060: 5, AR061: 3, AR104: 3, AR089: 3, AR096: 2, AR055: 2 S0206: 5, H0413: 3, S0028: 3, H0170: 2, S0212: 2, H0546: 2, H0266: 2, H0171: 1, S0040: 1, H0580: 1, H0208: 1, H0411: 1, H0437: 1, H0453: 1, H0427: 1, H0051: 1, S0051: 1, H0355: 1, S0003: 1, H0031: 1, H0412: 1, S0188: 1, S0390: 1, S3014: 1, S0027: 1 and S0031: 1.		186580, 191092, 600140, 600273, 601313, 601785	

HLDAS11	1047937	738	224 - 958	2913	Asn-33 to Glu-41, Ala-58 to Ser-69, Ser-77 to Pro-84, Pro-97 to Pro-102, Ile-121 to Gln-128.	H0693: 636, H0637: 29, H0551: 16, L0748: 11, L0777: 7, H0069: 5, L0666: 4, L0157: 3, H0641: 3, L0766: 3, L0665: 3, L0758: 3, H0510: 2, H0615: 2, H0509: 2, L0663: 2, H0521: 2, L0751: 2, L0755: 2, H0542: 2, H0650: 1, H0657: 1, S0356: 1, S0376: 1, S0360: 1, H0431: 1, H0013: 1, H0618: 1, S0010: 1, H0581: 1, T0001: 1, H0052: 1, H0251: 1, H0596: 1, H0373: 1, H0083: 1, H0271: 1, S0250: 1, S0003: 1, S0214: 1, H0622: 1, H0553: 1, H0674: 1, H0038: 1, H0040: 1, H0272: 1, H0059: 1, T0041: 1, H0646: 1, L0598: 1, L0662: 1, L0768: 1, L0649: 1, L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0517: 1, L0382: 1, L0791: 1,		

HWMJB31	1048009	739	202 - 732	2914	Ile-1 to Thr-7, Glu-16 to Glu-33, Leu-37 to Ala-46, Leu-69 to Glu-80, Tyr-89 to Gln-111, Ser-121 to Cys-128, Pro-135 to Glu-156, Glu-162 to Thr-177.	H0144: 1, S0126: 1, H0690: 1, H0658: 1, H0648: 1, S0152: 1, S0146: 1, L0743: 1, L0439: 1, L0754: 1, L0749: 1, S0260: 1 and L0366: 1.	S0358: 1		
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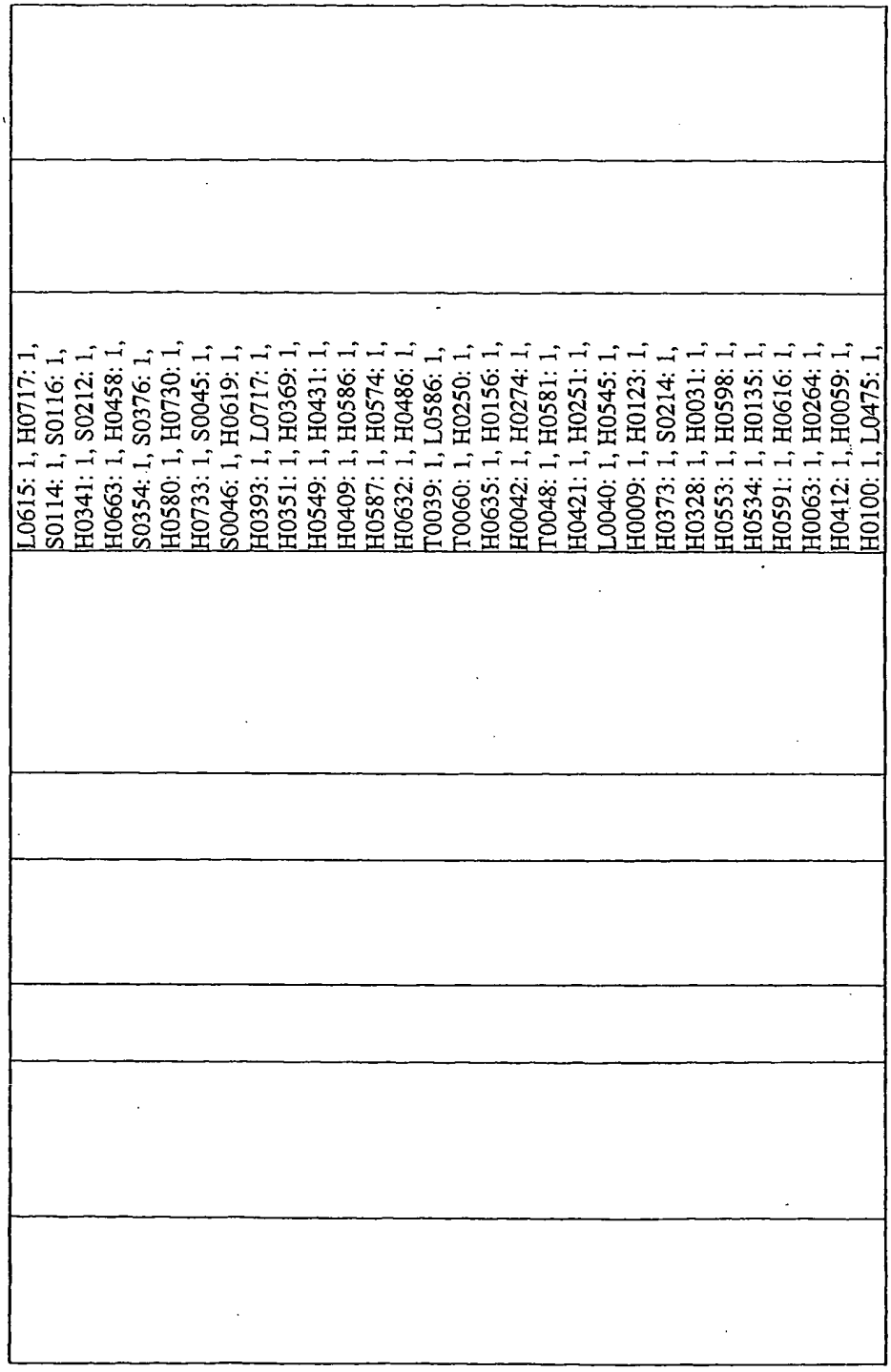
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HOFN166	1048739	746	3 - 710	2921	Thr-1 to Asp-9, Gly-18 to Ser-24, Asn-35 to Arg-42, Trp-49 to Asp-62, Ser-69 to Ala-74, Arg-155 to Trp-167,	L0740: 10, L0752: 9, L0748: 8, S0422: 6, S0440: 5, L0666: 5, L0754: 5, S0360: 4, H0327: 4, L0771: 4, L0438: 4, S0126: 4,		

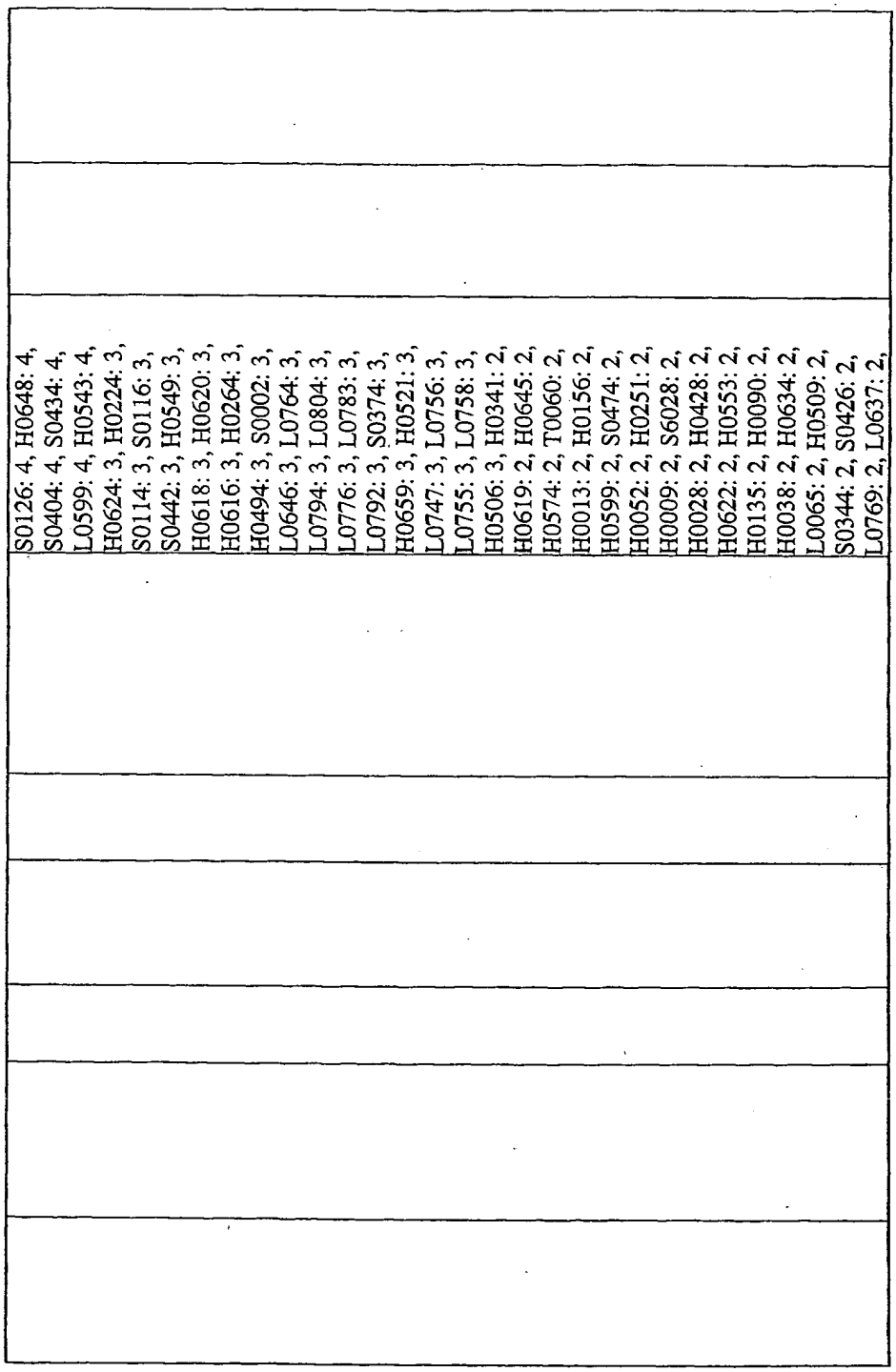
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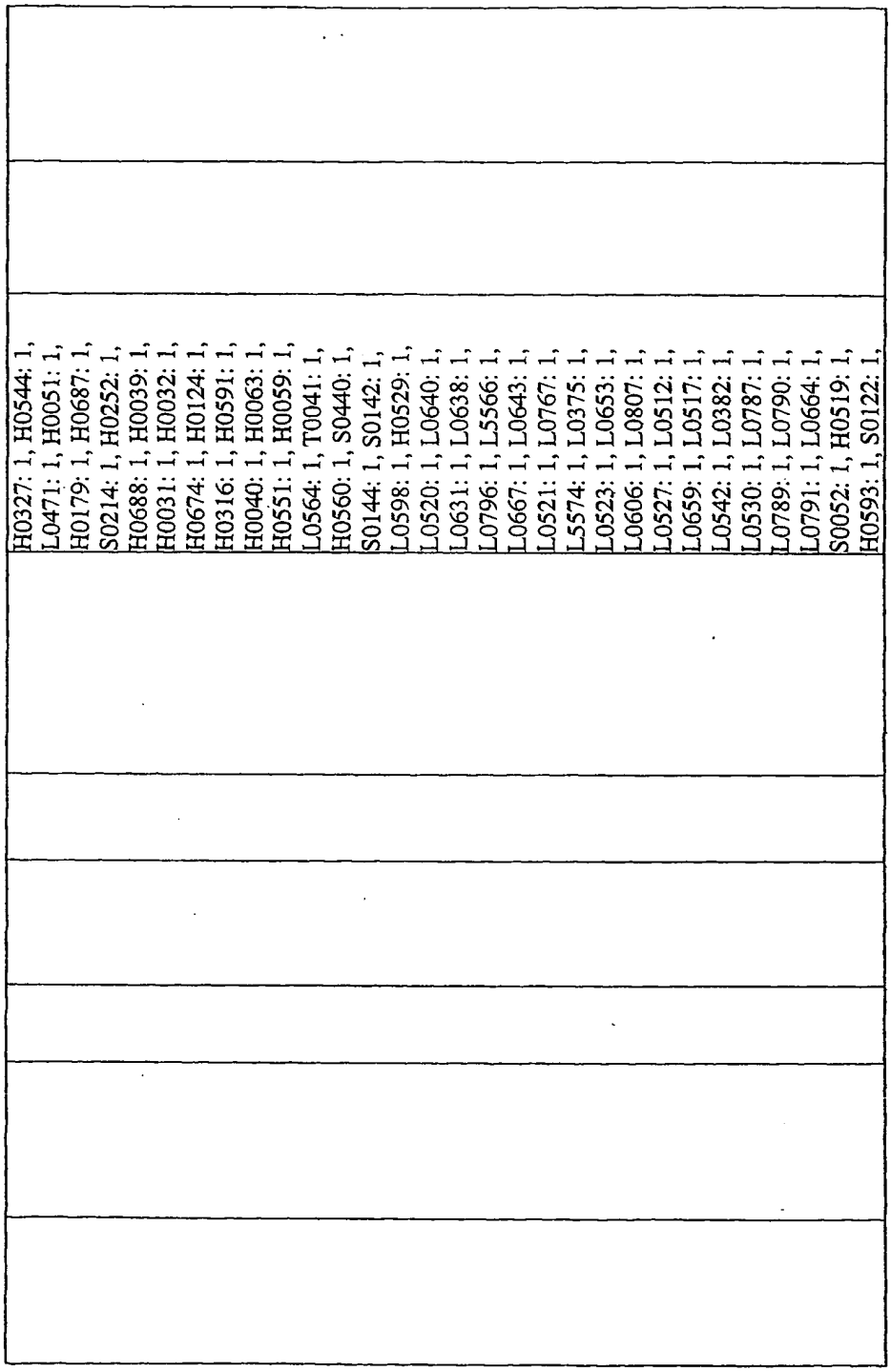
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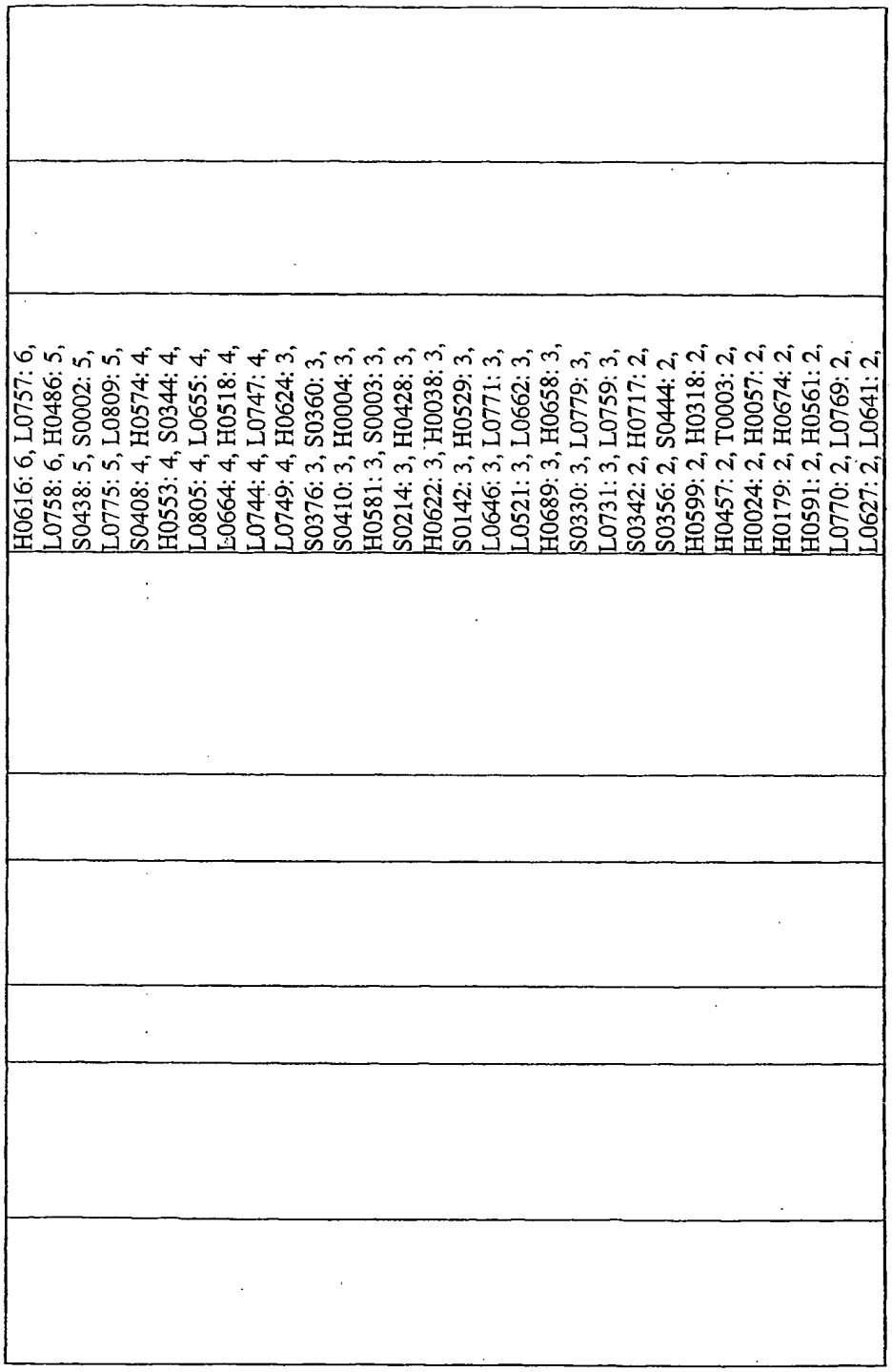
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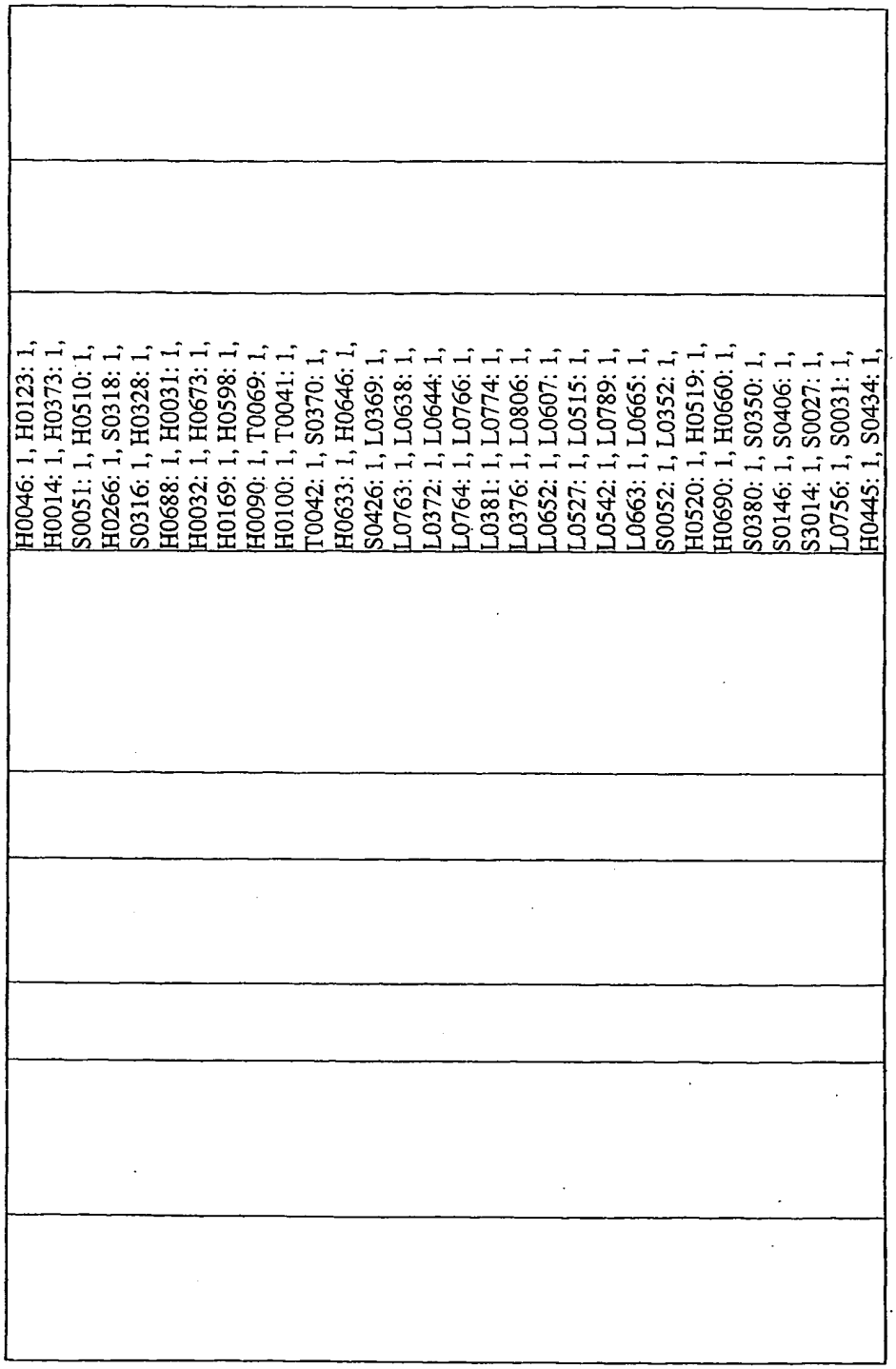
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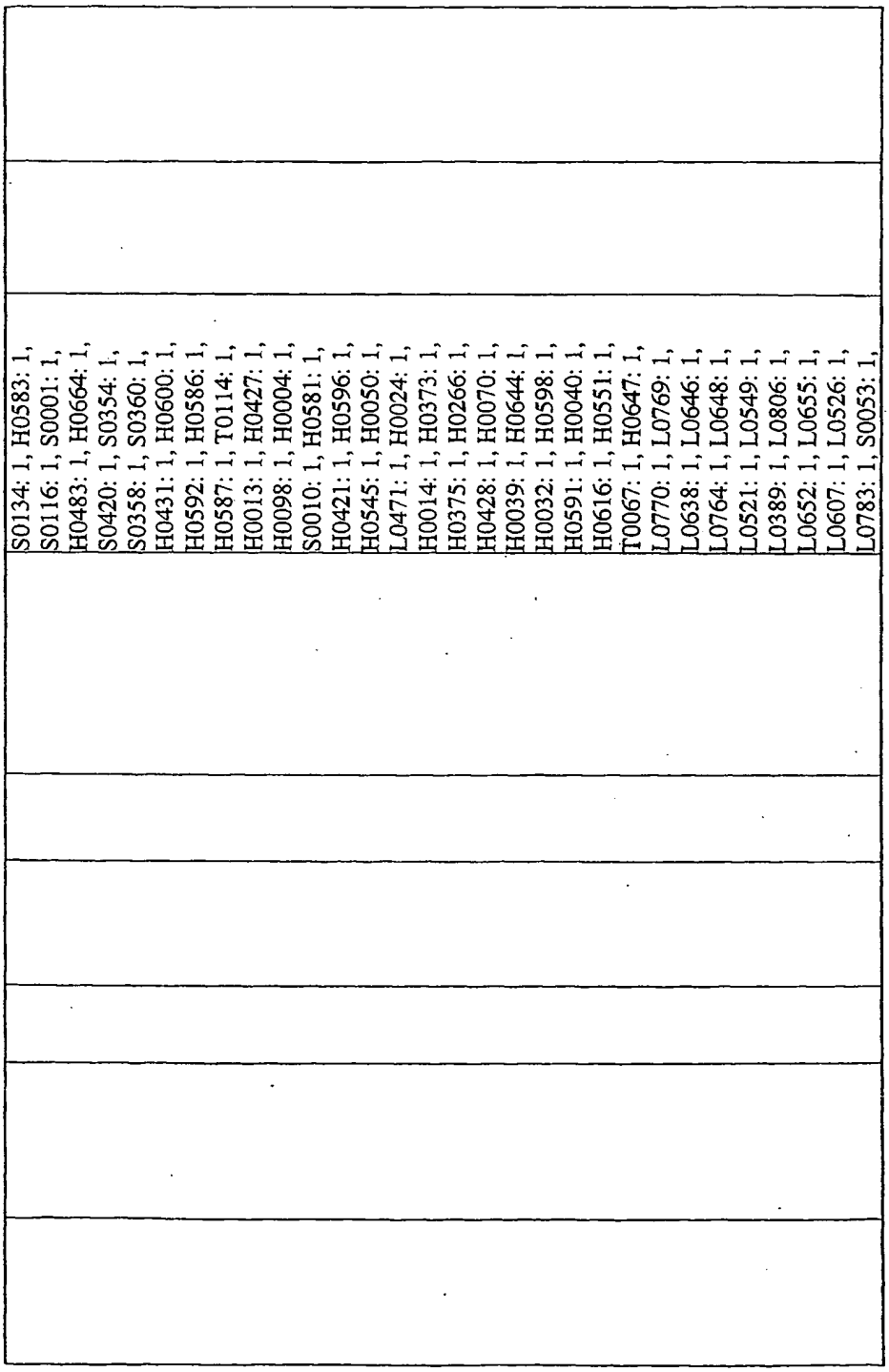
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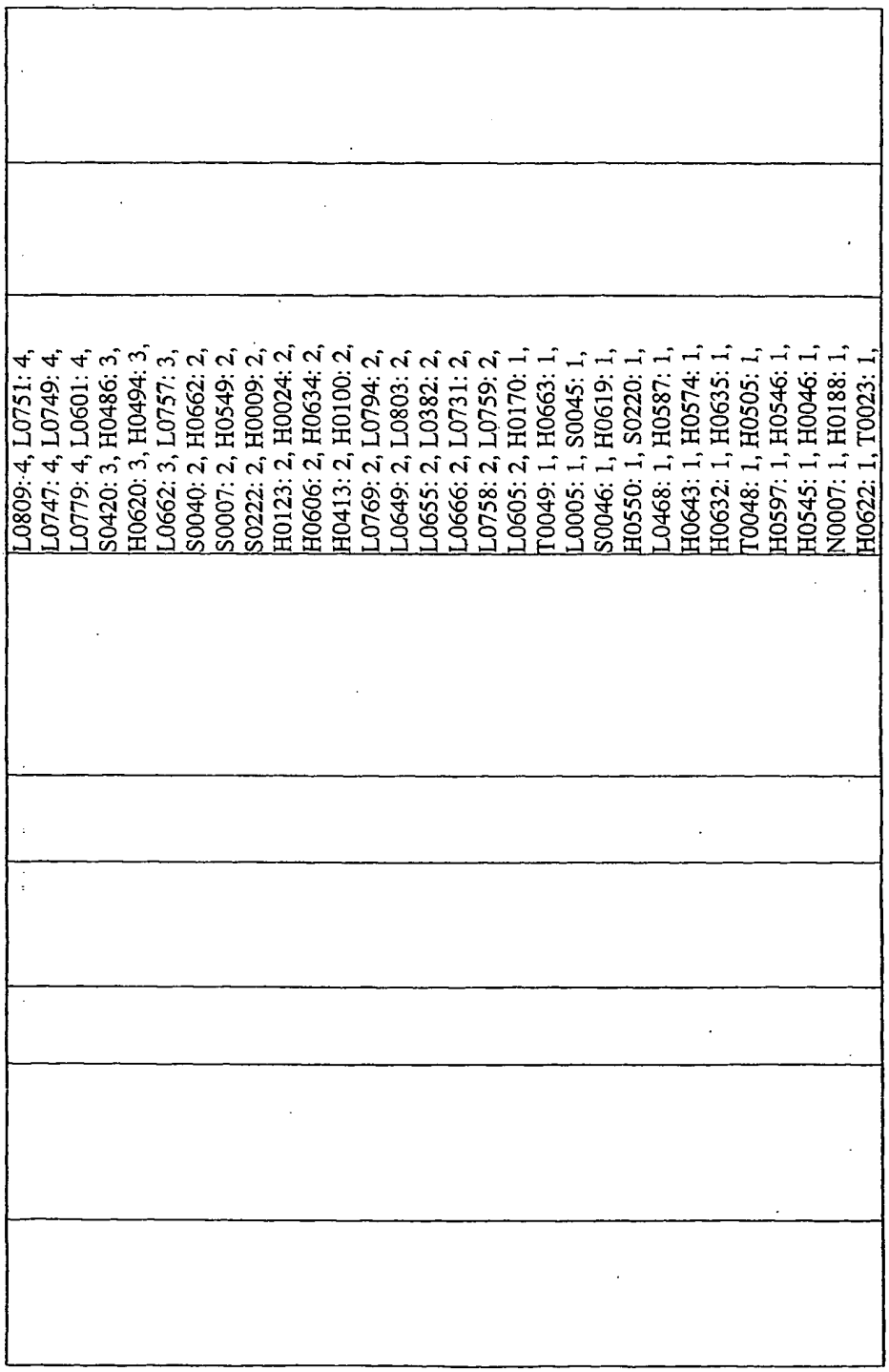
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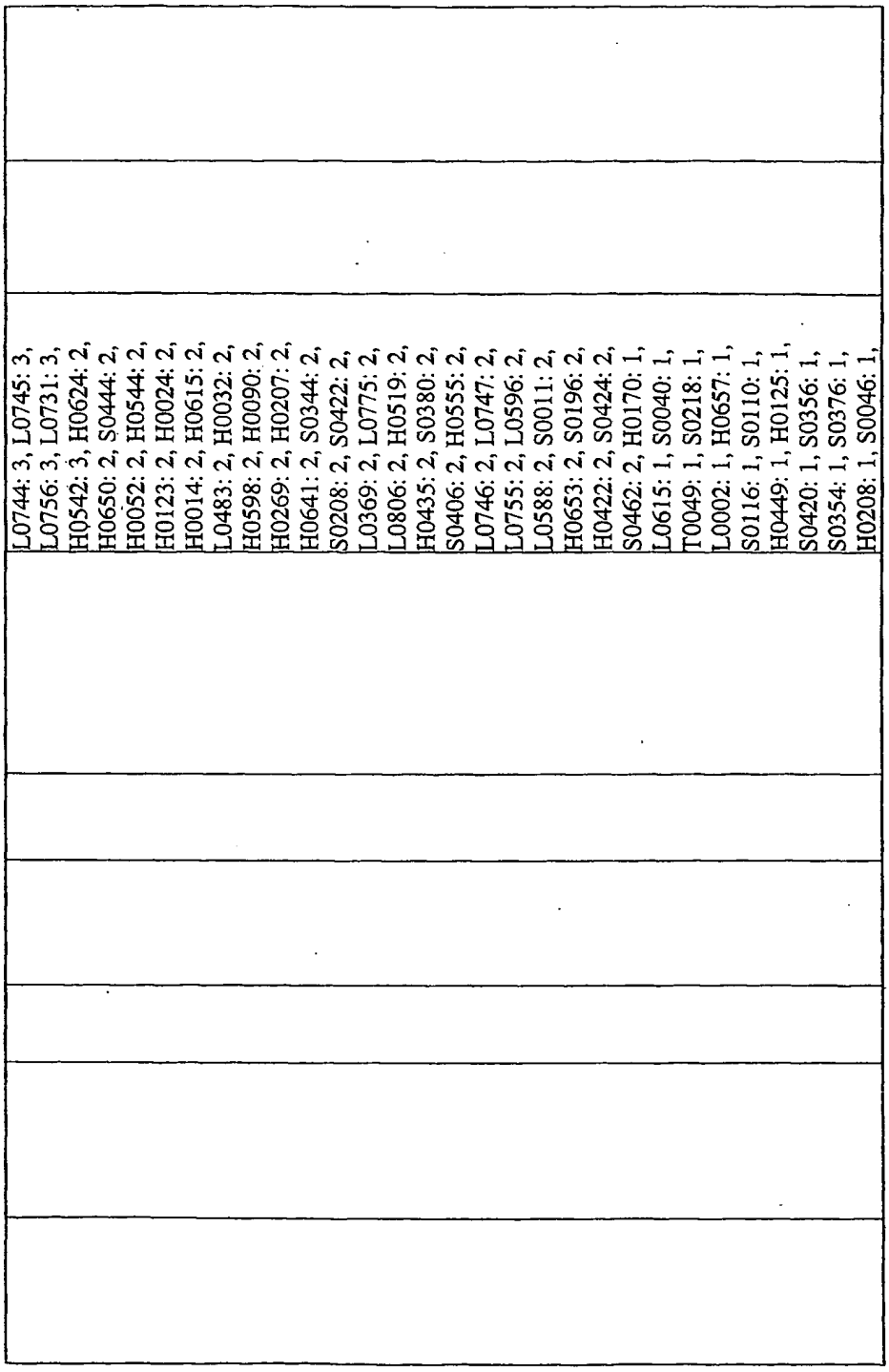
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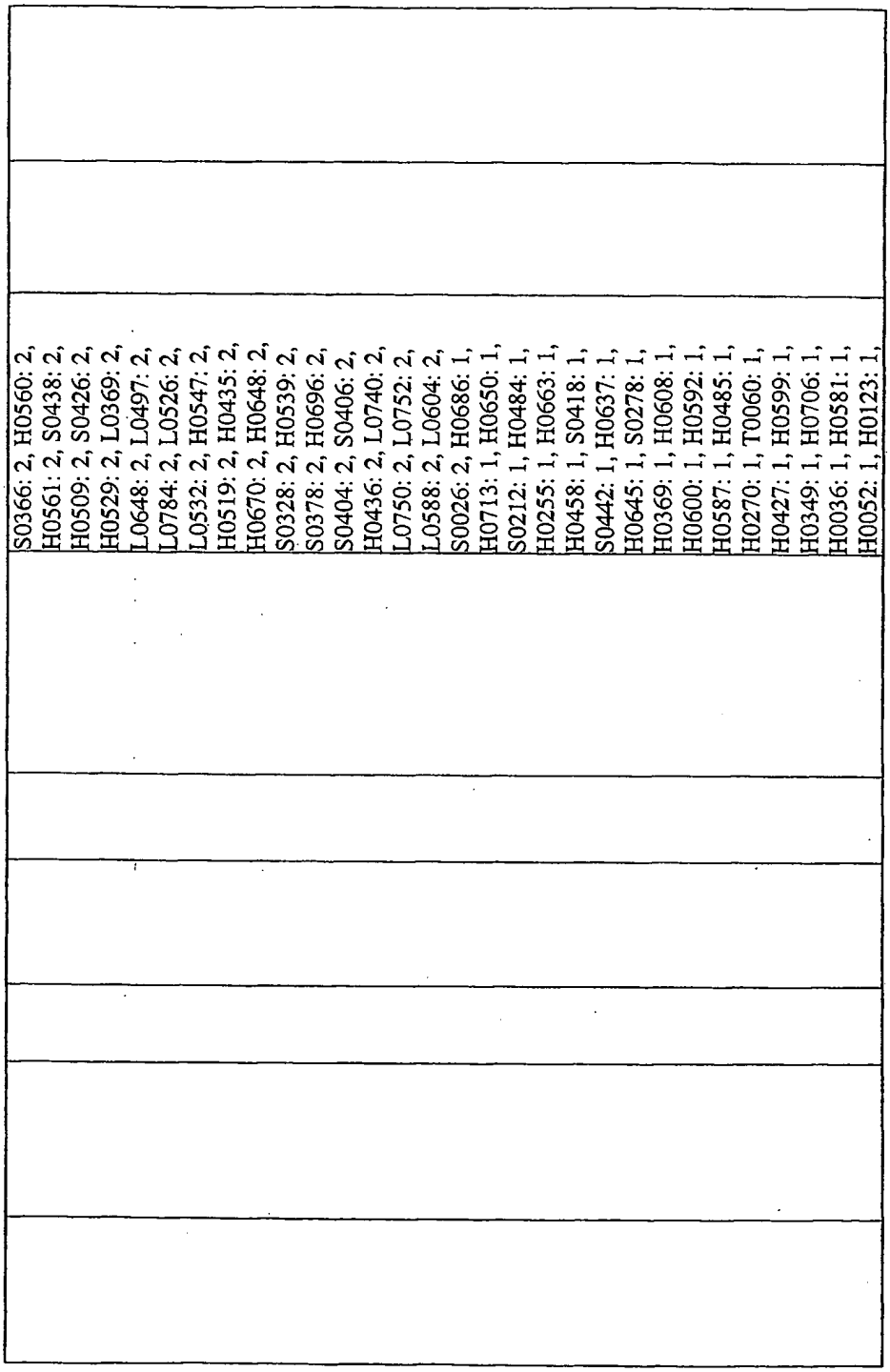
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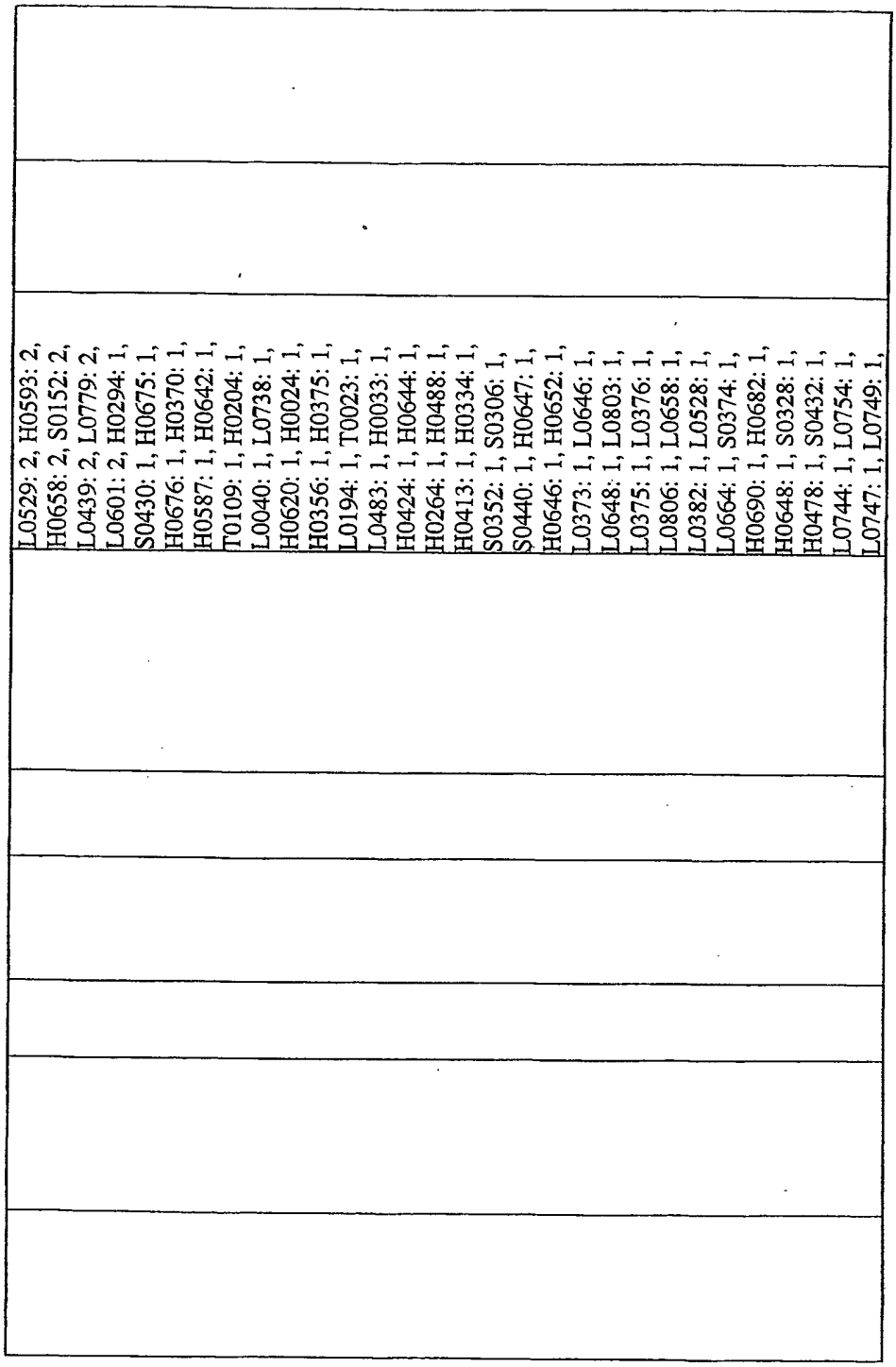
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HPYSC40	1052158	774	2 - 583	2949	Ile-1 to Pro-10, Pro-36 to Glu-43, Arg-92 to Cys-98, Glu-106 to Lys-115, Pro-174 to Leu-179.	L0751: 11, L0777: 9, L0809: 6, H0100: 4, H0112: 3, L0783: 3, L0747: 3, H0644: 2, H0670: 2, L0755: 2, S0040: 1, H0013: 1, H0031: 1, L0794: 1, H0144: 1 and L0759: 1.	9q34	125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850
HDDMT56	1052261	775	155 - 844	2950	Pro-8 to Asp-23, Leu-27 to Ser-38, Thr-40 to Arg-69, Arg-73 to Asp-97, Asp-108 to Asp-126, Glu-135 to Ile-159, Pro-176 to Ala-181, Lys-184 to Asp-192, Val-202 to Arg-210, Thr-215 to His-221.	H0641: 1, L0775: 1 and H0659: 1.		
HVVAW02	1052553	776	2 - 652	2951	Ala-1 to Ala-8, Pro-26 to Tyr-32, Gly-48 to Pro-53, Asp-132 to Gly-137, Val-139 to Leu-144, Lys-165 to Gly-171, Ser-191 to Ala-198.	S0358: 6, L0748: 5, L0777: 5, H0171: 4, H0341: 4, S0408: 4, H0597: 4, H0620: 4, L0754: 4, L0749: 4, S0360: 3, H0596: 3, H0545: 3, H0494: 3, S0210: 3, L0769: 3, S0374: 3, H0659: 3,	7q21.1	129900, 154276, 171050, 171060, 602136, 602136, 602136, 602447

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HOGCS42	1052557	777	223 - 852	2952	Gly-156 to Met-161, Cys-186 to Lys-197.	AR039: 7, AR052: 6, AR089: 5, AR033: 4, AR104: 3, AR053: 3, AR096: 3, AR055: 3, AR061: 3, AR060: 2 S0358: 15, H0622: 15, S0354: 14, S0360: 11, H0435: 11, S0356: 9, H0039: 9, L0666: 9, L0751: 9, H0553: 8, H0506: 8, H0689: 7, L0748: 7, H0661: 6, L0659: 6, L0665: 6, S0376: 5, L0743: 5, H0484: 4, H0483: 4, H0059: 4, L0764: 4, L0771: 4, L0662: 4, L0809: 4, S0330: 4, H0615: 3, H0688: 3, H0040: 3, L0763: 3, L0364: 3, L0774: 3, L0663: 3, H0683: 3, H0670: 3, H0672: 3, L0750: 3, L0731: 3, H0663: 2, H0549: 2, H0046: 2, H0014: 2, H0124: 2, H0494: 2, S0450: 2, L0374: 2, L0765: 2, L0804: 2, L0378: 2, L0653: 2,		


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HPDRP02	1052728	779	248 - 670	2954	Pro-12 to Asp-20, Leu-30 to Glu-37, Lys-62 to Asp-70, Met-99 to Asp-109, Ala-115 to Asn-122, Gly-135 to Asp-141.	H0619: 3, H0662: 2, H0135: 1, H0593: 1 and H0658: 1.		
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HLYAR61	1053037	781	120 - 431	2956	Gln-17 to Gly-27, Glu-39 to Asp-52, Lys-79 to Asn-84.	H0341: 3, H0580: 2, S0049: 2, S0422: 2, T0049: 1, H0656: 1, S0222: 1, H0632: 1, H0486: 1, H0581: 1, H0266: 1, H0494: 1, S0438: 1, H0520: 1, H0659: 1, H0704: 1, S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0752: 1, L0757: 1,		

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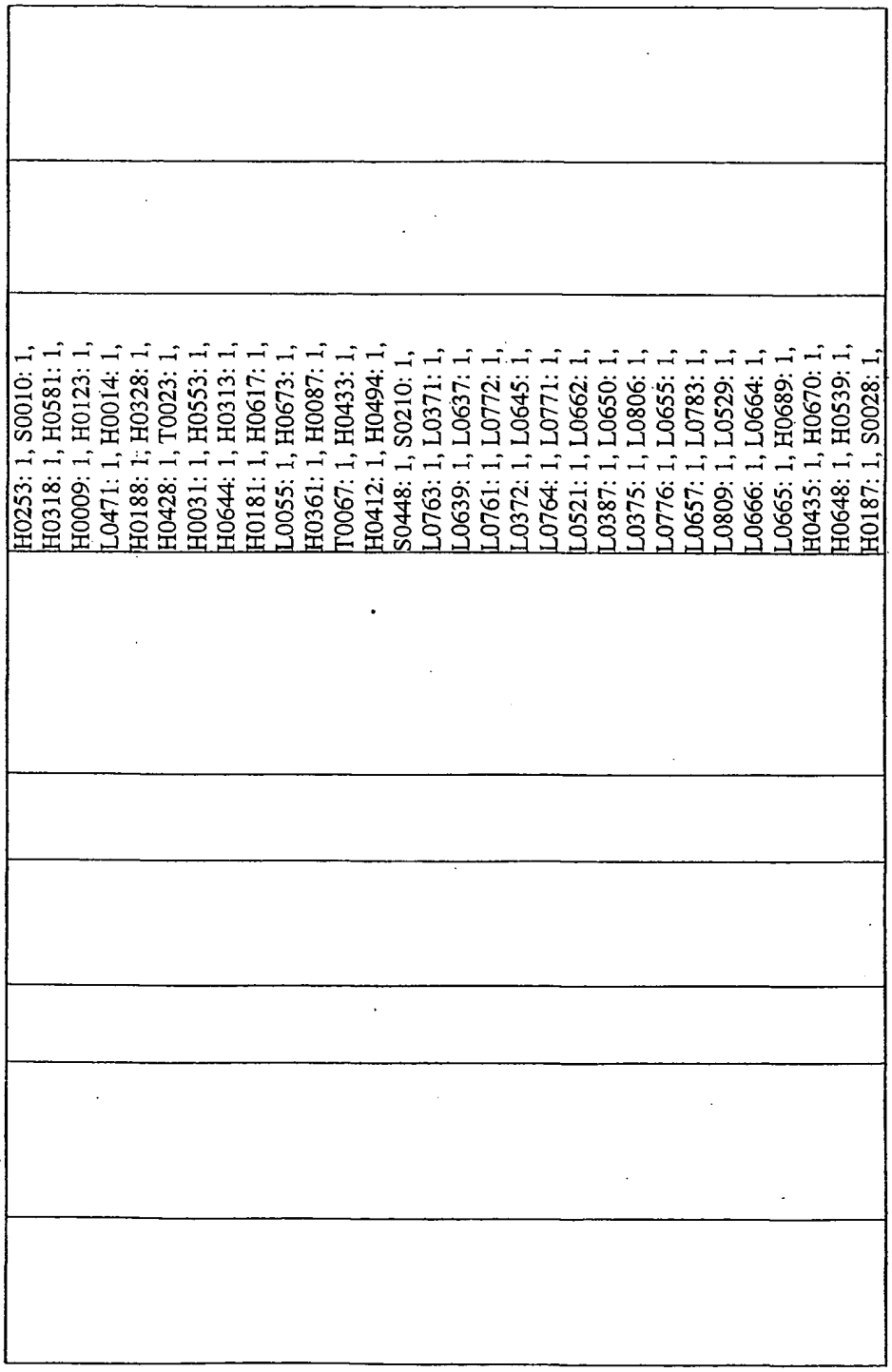
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							H0352: 1.		
HOFMU50	1053548	788	356 - 547	2963	Gln-36 to Leu-47, Glu-55 to Asn-64.	H0415: 2, H0583: 1, H0123: 1, H0623: 1, H0518: 1 and L0779: 1.			
HE9MO38	1053585	789	2 - 268	2964	Pro-26 to Ala-33, Gly-68 to Gln-75.	H0254: 1, S0278: 1, L0764: 1, H0144: 1, S0424: 1 and H0506: 1.			
HOPJF55	1053725	790	3 - 698	2965	Glu-1 to Gly-11, Gln-83 to Asp-98, Glu-101 to Gln-110, Gln-112 to Gln-120, Thr-128 to Asn-133, Glu-135 to Gly-142, Asp-145 to Cys-153, His-160 to Cys-166.	L0747: 10, L0771: 8, H0333: 7, H0620: 6, H0545: 5, H0024: 5, H0551: 5, L0659: 5, L0665: 5, H0012: 4, L0769: 4, L0375: 4, S0126: 4, L0740: 4, L0754: 4, L0755: 4, L0759: 4, H0294: 3, S0045: 3, H0550: 3, L0471: 3, L0794: 3, H0689: 3, H0682: 3, L0749: 3, H0624: 2, H0171: 2, H0251: 2, H0081: 2, H0050: 2, H0252: 2, H0428: 2, H0124: 2, H0068: 2, L0637: 2, L0368: 2, L0792: 2, L0565: 2, L0779: 2, L0777: 2, L0757: 2, H0352: 2, H0170: 1, H0685: 1, S0356: 1, S0376: 1,	1p36.1-p35	116600, 118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 185470, 230350, 255800, 600975, 602771	

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HAOTD13	1053746	791	2 - 808	2966		L0748: 22, L0751: 11, L0754: 11, L0740: 9, L0758: 9, H0659: 7, L0362: 6, H0052: 5, S0003: 5, L0769: 5, H0651: 5, L0747: 4,		

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H0402: 3, S0358: 3,
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L0455: 2, H0100: 2,
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L0805: 2, L0659: 2,
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S0044: 2, S3014: 2,
S0206: 2, S0032: 2,
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L0581: 2, L0594: 2,
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H0428: 1, T0023: 1,
H0031: 1, H0553: 1,
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H0181: 1, H0617: 1,
L0055: 1, H0673: 1,
H0361: 1, H0087: 1,
T0067: 1, H0433: 1,
H0412: 1, H0494: 1,
S0448: 1, S0210: 1,
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L0665: 1, H0689: 1,
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HODCI32	1053772	792	643 - 149	2967	Tyr-1 to Glu-8, Pro-51 to Thr-67, Val-85 to Ser-90, Pro-118 to Gly-128.	L0776: 4, L0756: 4, L0777: 4, L0749: 2, H0052: 1, H0565: 1, H0328: 1, L0770: 1, L0769: 1, L0761: 1, L0805: 1, L0659: 1, L0809: 1, L0787: 1, L0666: 1, L0665: 1, L0439: 1, L0751: 1, L0745: 1, L0747: 1, L0779: 1 and L0758: 1.			
HOCPT34	1053973	793	1 - 2355	2968	Ser-19 to Gly-26, Glu-46 to Gln-52, Pro-61 to Ser-66, Arg-71 to Leu-85, Tyr-99 to Tyr-105, Pro-107 to Gly-115, Leu-137 to Leu-147, Glu-175 to Leu-181, Ala-187 to Ser-196, Ile-200 to Trp-209, Ser-353 to Lys-367, Gly-388 to Ser-397, Thr-415 to Val-423,	L0438: 5, L0749: 4, H0266: 3, H0038: 3, L0803: 3, L0666: 3, L0777: 3, L0763: 2, H0547: 2, L0748: 2, L0759: 2, S0031: 2, L0591: 2, S0358: 1, S0376: 1, S0007: 1, S0045: 1, S0132: 1, S0222: 1, H0013: 1, S0010: 1, H0390: 1, H0052: 1, H0596: 1, H0046: 1, H0564: 1,	2q23-q31	100690, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321	

HFKHC64	1054015	794	1928 - 363	2969	Glu-459 to Cys-469, Gly-471 to Pro-481.	N0007: 1, H0201: 1, H0616: 1, H0551: 1, T0042: 1, H0561: 1, H0131: 1, H0529: 1, L0761: 1, L0641: 1, L0774: 1, L0776: 1, L0659: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, S0126: 1, H0660: 1, H0539: 1, H0579: 1, L0743: 1, L0439: 1, L0745: 1, L0747: 1, L0750: 1, S0260: 1 and L0366: 1.			
					Gly-6 to His-16, Arg-20 to Gly-41, Arg-115 to Asn-121, Phe-136 to Glu-144, Lys-152 to Glu-162, Glu-176 to Thr-182, Pro-205 to Gln-212, Lys-229 to Ala-235, Gly-310 to Trp-315, Val-328 to Thr-342.	L0601: 7, H0521: 6, S0418: 4, H0617: 4, L0665: 4, S0046: 3, H0620: 3, H0551: 3, H0413: 3, L0659: 3, H0672: 3, H0522: 3, L0758: 3, H0250: 2, H0012: 2, H0428: 2, H0622: 2, H0628: 2, H0181: 2, S0422: 2, L0794: 2, L0526: 2, L0518: 2, H0547: 2, H0684: 2, H0539: 2, L0602: 2, L0743: 2, L0439: 2, L0751: 2, L0749: 2, L0604: 2,	19q13.2-q13.4	107741, 113900, 122720, 122720, 126340, 126391, 134790, 160900, 164731, 173850, 191044, 207750, 248600, 258501, 600040, 600138

HOPKO37	1054085	795	2117 - 1056	2970	Arg-22 to Met-33, Ile-38 to Ala-49, Val-64 to Pro-85,	L0603: 2, H0295: 1, S0212: 1, H0638: 1, S0356: 1, S0376: 1, S0360: 1, H0370: 1, H0587: 1, H0333: 1, H0486: 1, H0427: 1, H0156: 1, L0021: 1, H0618: 1, H0253: 1, H0052: 1, H0563: 1, H0023: 1, H0266: 1, S0022: 1, H0039: 1, T0006: 1, H0424: 1, H0135: 1, H0264: 1, H0623: 1, H0509: 1, H0647: 1, L0520: 1, L0375: 1, L0654: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0663: 1, S0374: 1, H0593: 1, S0126: 1, H0690: 1, S0328: 1, S0152: 1, S0146: 1, H0555: 1, L0779: 1, L0752: 1, L0731: 1, L0759: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and S0042: 1.	H0124: 6, L0769: 3, L0768: 3, L0794: 3, L0522: 3, L0666: 3,	5		

						Pro-105 to Ala-123.	S0420: 2, H0599: 2, H0620: 2, H0617: 2, H0412: 2, H0100: 2, H0646: 2, H0520: 2, H0684: 2, L0588: 2, L0778: 1, H0484: 1, H0661: 1, S0360: 1, H0586: 1, H0427: 1, H0253: 1, H0581: 1, H0546: 1, H0009: 1, N0006: 1, H0172: 1, H0012: 1, H0188: 1, H0181: 1, H0606: 1, H0040: 1, H0059: 1, H0561: 1, S0002: 1, L0503: 1, L0640: 1, L0803: 1, L0652: 1, L0654: 1, L0790: 1, L0664: 1, L0565: 1, H0682: 1, H0658: 1, H0670: 1, H0660: 1, H0539: 1, L0744: 1, L0439: 1, L0754: 1, L0747: 1, L0750: 1, L0777: 1, L0731: 1, S0260: 1, L0593: 1, H0506: 1 and H0352: 1.
HNBVO53	1054122	796	2 - 2332	2971	His-4 to Tyr-10, Ile-58 to Leu-63, Pro-65 to Val-74,		L0794: 5, H0542: 5, S0358: 3, H0013: 2, H0618: 2, H0617: 2,	

					Leu-122 to Ser-132, Gln-134 to Leu-144, Pro-155 to Ser-166.	L0769: 2, L0764: 2, L0662: 2, L0803: 2, H0670: 2, L0756: 2, L0595: 2, L0361: 2, H0556: 1, S0040: 1, L0785: 1, H0341: 1, H0661: 1, H0662: 1, H0402: 1, S0420: 1, H0370: 1, T0040: 1, T0114: 1, H0253: 1, H0581: 1, H0041: 1, H0687: 1, H0604: 1, H0213: 1, H0644: 1, H0181: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, S0382: 1, H0509: 1, S0210: 1, L0763: 1, L0761: 1, L0372: 1, L0641: 1, L0649: 1, L0386: 1, L0809: 1, L0789: 1, L0663: 1, H0693: 1, H0658: 1, H0672: 1, H0539: 1, S0027: 1, L0757: 1, L0758: 1, L0604: 1, H0543: 1, H0506: 1 and H0352: 1.		
HOPKF84	1054155	797	395 - 1168	2972	Ser-11 to Cys-17, Glu-39 to Tyr-49, Glu-98 to Glu-104,	L0766: 5, L0804: 3, L0105: 2, L0803: 2, L0788: 2, H0659: 2,		

					Gly-122 to Ser-128, Tyr-154 to Val-163, Glu-170 to Thr-195, Leu-213 to Gly-218, Lys-229 to Phe-236, Ser-241 to Ser-248.	L0759: 2, H0624: 1, H0657: 1, H0661: 1, H0601: 1; H0266: 1, H0687: 1, H0032: 1, H0413: 1, S0450: 1, H0509: 1, L0763: 1, L0638: 1, L0761: 1, L0662: 1, L0650: 1, L0805: 1, L0659: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0684: 1, L0745: 1, L0747: 1, L0750: 1, L0731: 1, L0758: 1, H0595: 1, S0026: 1, H0543: 1, S0424: 1 and S0456: 1.		
HCQDQ11	1054196	798	109 - 174	2973		H0594: 11, H0596: 8, S0282: 5, S0260: 5, S0194: 5, H0543: 5, S0278: 2, H0600: 2, H0592: 2, H0598: 2, S0344: 2, H0595: 2, S0356: 1, H0438: 1, H0574: 1, H0599: 1, S0346: 1, H0318: 1, H0597: 1, S0388: 1, H0316: 1, S0390: 1 and H0542: 1.	17p13.3	113721, 247200, 600059, 601545
HTFML39	1054230	799	1 - 873	2974	Ala-23 to Gly-49,	H0124: 2, H0618: 1,		

					Ser-106 to Pro-115, Gly-160 to Lys-167, Thr-183 to Gly-189, Glu-196 to Gly-211, Ala-218 to Gly-224, Val-257 to Leu-269.	H0123: 1, H0012: 1, H0083: 1, H0428: 1, H0593: 1, L0740: 1 and S0424: 1.		
HOGCR32	1054235	800	3 - 137	2975	Pro-3 to Lys-13, Thr-39 to Ile-45.	H0435: 2		
HFCDL60	1054288	801	1158 - 241	2976	Glu-2 to Thr-7, Arg-64 to Lys-72, Glu-77 to Leu-83, Arg-93 to Ser-102, Ile-118 to Gln-123, Ser-152 to Gly-158, Gln-276 to Ser-282.	AR089: 7, AR104: 6, AR096: 6, AR053: 4, AR039: 4, AR060: 3, AR033: 1, AR061: 1, AR055: 0 L0777: 9, H0556: 8, H0620: 7, L0766: 7, H0521: 7, L0747: 6, S0360: 5, H0250: 5, L0751: 5, L0794: 4, L0754: 4, L0591: 4, S0354: 3, S0358: 3, S0278: 3, H0553: 3, S0144: 3, L0769: 3, L0773: 3, H0547: 3, S0404: 3, S3014: 3, L0743: 3, L0744: 3, L0439: 3, L0752: 3, L0731: 3, H0445: 3, S0218: 2, H0580: 2, S0132: 2, H0393: 2, H0550: 2, S0222: 2,	15q23-q25	118485, 151670, 231680, 272800, 272800, 272800, 276700, 600374, 601780

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H0305: 1, H0589: 1,
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H0208: 1, S0045: 1,
S0046: 1, H0370: 1,
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H0587: 1, T0040: 1,

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HODEC13	1054400	802	1599 - 880	2977		H0208: 2, H0615: 2, S0001: 1, H0351: 1, H0545: 1, H0081: 1, H0424: 1 and H0334: 1.		13q12.3-q13.1	157900, 600185, 600185, 600631
HUSYA18	1054451	803	689 - 138	2978		L0749: 15, L0748: 9, L0758: 9, L0766: 8, L0770: 7, H0266: 6, L0775: 6, L0655: 6, L0731: 6, L0362: 6, S0444: 5, L0764: 5, L0809: 5, S0358: 4, H0637: 4, L0777: 4, L0752: 4, H0305: 3, S0440: 3, L0646: 3, L0773: 3, S0406: 3, L0439: 3, L0740: 3, L0754: 3, L0755: 3, L0759: 3, H0341: 2, S0420: 2, S0356: 2, S0360: 2, S6028: 2, H0551: 2, S0438: 2, L0761: 2, L0373: 2, L0800: 2, L0768: 2, L0774: 2, L0666: 2,			

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HOCON42	1054527	804	2000 - 1755	2979	Glu-16 to Gly-33, Lys-63 to Lys-71, Asp-77 to Pro-82.	S0250: 5, L0764: 4, H0457: 3, L0789: 3, H0543: 3, H0650: 2, L0717: 2, H0594: 2, H0622: 2, L0769: 2, L0800: 2, L0794: 2, L0657: 2, L0809: 2, H0670: 2, H0521: 2, H0445: 2, H0136: 2, H0542: 2, H0656: 1, H0484: 1, H0255: 1, S0354: 1, S0358: 1, S0360: 1, H0550: 1, H0370: 1, H0597: 1, H0081: 1, H0012: 1, H0620: 1, H0266: 1, H0553: 1, S0364: 1, H0063: 1, H0488: 1, H0412: 1, H0059: 1,		

						H0494: 1, H0561: 1, H0509: 1, S0144: 1, S0344: 1, S0210: 1, S0002: 1, L0770: 1, L0667: 1, L0772: 1, L0771: 1, L0662: 1, L0803: 1, L0774: 1, L0806: 1, L0655: 1, L0659: 1, L0636: 1, L0783: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, L0602: 1, H0436: 1, L0779: 1, S0031: 1, L0595: 1 and S0424: 1.		
HKMNH37	1054550	805	22 - 1206	2980	Ser-24 to Thr-31, Pro-164 to Asn-173, Val-185 to Arg-192, Gln-199 to Gly-204, Lys-250 to Gly-258, Gln-265 to Ser-277, Gln-322 to Gly-327, Ala-334 to Ser-343, Pro-349 to Cys-356.	L0777: 5, L0748: 4, S0007: 2, L0764: 2, L0809: 2, L0750: 2, L0759: 2, H0669: 1, H0730: 1, H0431: 1, L0022: 1, H0581: 1, H0057: 1, H0271: 1, H0428: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0805: 1, L0655: 1, L0657: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1,		

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					Lys-26 to Glu-41, Lys-149 to Ala-156, Arg-214 to Lys-225, Ile-229 to Lys-235, Glu-240 to His-245.	L0659: 10, L0439: 5, L0378: 4, L0748: 4, L0777: 4, H0657: 3, L0662: 3, L0655: 3, L0665: 3, S0428: 3, H0658: 3, S0434: 3, H0618: 2, S0474: 2, S0049: 2, H0309: 2, H0024: 2, H0412: 2, S0002: 2, S0426: 2, L0646: 2, L0771: 2, L0774: 2, L0657: 2, L0664: 2, H0696: 2, S0027: 2, L0588: 2, L0605: 2, L0601: 2, H0556: 1, T0002: 1, H0716: 1, S0116: 1, H0661: 1, H0662: 1, S0418: 1, S0442: 1, S0444: 1, H0208: 1, S0132: 1, S0476: 1, H0619: 1, H0351: 1, S6022: 1, H0549: 1, S0220: 1, H0455: 1, H0427: 1, S0280: 1,
				2981			
			63 - 797				
		806					
	1054662						
HPDWP21							

HOGCS52	1054677	807	21 - 1388	2982	Met-31 to Arg-37,	AR096: 52, AR039:	H0706: 1, T0071: 1, H0544: 1, H0546: 1, H0545: 1, N0006: 1, H0123: 1, H0057: 1, S0051: 1, H0188: 1, H0031: 1, L0055: 1, H0673: 1, H0708: 1, H0163: 1, H0090: 1, H0634: 1, H0087: 1, H0623: 1, H0059: 1, S0386: 1, H0633: 1, H0538: 1, H0695: 1, L0763: 1, L0769: 1, L0638: 1, L0639: 1, L5565: 1, L0667: 1, L0764: 1, L0650: 1, L0775: 1, L0375: 1, L0807: 1, L0542: 1, L0384: 1, L0666: 1, H0144: 1, H0519: 1, S0008: 1, H0660: 1, H0518: 1, H0521: 1, S0044: 1, H0436: 1, S0037: 1, S3014: 1, L0744: 1, L0740: 1, L0731: 1, L0757: 1, L0758: 1, S0031: 1, H0445: 1, S0194: 1, H0423: 1 and H0721: 1.	

					Thr-157 to Arg-176, Gly-183 to Tyr-188, Leu-229 to Asp-234, Leu-275 to Lys-280, Thr-381 to Asn-386, Asp-424 to Arg-434.	49, AR089: 49, AR053: 43, AR060: 33, AR061: 20, AR055: 19, AR104: 18, AR033: 17 L0751: 8, L0754: 8, L0769: 6, L0803: 6, L0748: 6, H0100: 5, H0435: 5, L0439: 5, L0758: 5, L0665: 4, L0747: 4, L0749: 4, S0114: 3, H0619: 3, H0546: 3, H0457: 3, S0002: 3, L0637: 3, L0657: 3, H0658: 3, L0743: 3, L0777: 3, L0780: 3, H0445: 3, S0040: 2, H0255: 2, H0645: 2, S0278: 2, H0024: 2, H0416: 2, H0030: 2, H0553: 2, H0135: 2, H0649: 2, L0770: 2, L0804: 2, L0774: 2, L0805: 2, L0659: 2, H0659: 2, H0518: 2, H0555: 2, L0755: 2, L0757: 2, L0599: 2, L0603: 2, H0423: 2, H0265: 1, H0556: 1, L0460: 1, H0295: 1, S0218: 1,		

		H0583: 1, H0650: 1, S0212: 1, H0483: 1, H0402: 1, H0125: 1, S0418: 1, S0420: 1, S0356: 1, S0360: 1, S0046: 1, L0717: 1, H0261: 1, H0370: 1, H0391: 1, H0438: 1, H0486: 1, T0039: 1, H0250: 1, H0156: 1, L0021: 1, H0575: 1, T0082: 1, H0253: 1, S0474: 1, T0071: 1, H0581: 1, S0049: 1, H0052: 1, H0235: 1, H0150: 1, L0471: 1, H0620: 1, S0362: 1, S0388: 1, T0010: 1, H0594: 1, H0266: 1, H0188: 1, H0687: 1, H0292: 1, H0615: 1, H0688: 1, H0048: 1, H0424: 1, H0031: 1, H0644: 1, L0143: 1, H0181: 1, H0617: 1, L0455: 1, H0708: 1, H0163: 1, H0591: 1, H0551: 1, H0488: 1, H0646: 1, S0344: 1, L0762: 1, L0640: 1,				

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HWMCK60	1054751	808	3 - 485	2983	Ser-46 to Ala-56,	H0694: 23, L0777: 11,		

					Asp-85 to Ala-116, Gln-132 to Lys-140, Phe-143 to Leu-152.	L0747: 10, L0005: 9, L0755: 8, L0754: 7, L0731: 6, L0776: 5, L0758: 5, L0759: 5, H0141: 4, H0585: 4, S0360: 4, L0770: 4, L0771: 4, L0775: 4, S0374: 4, L0756: 4, L0763: 3, L0764: 3, L0766: 3, L0806: 3, L0751: 3, L0749: 3, H0668: 3, H0543: 3, H0295: 2, H0638: 2, S0222: 2, S0210: 2, L0662: 2, L0774: 2, L0783: 2, L0792: 2, H0144: 2, S0152: 2, S0406: 2, L0748: 2, L0750: 2, L0757: 2, H0542: 2, H0624: 1, H0171: 1, T0002: 1, H0294: 1, S0218: 1, S0430: 1, H0656: 1, H0341: 1, H0661: 1, H0228: 1, S0348: 1, S0376: 1, S0444: 1, S0408: 1, S0045: 1, S0278: 1, H0431: 1, H0586: 1, H0587: 1, H0497: 1, H0486: 1,		

					H0599: 1, H0196: 1, T0110: 1, H0327: 1, H0009: 1, L0157: 1, H0083: 1, H0375: 1, H0594: 1, H0188: 1, H0687: 1, S0003: 1, H0252: 1, H0428: 1, H0031: 1, H0553: 1, H0400: 1, H0591: 1, T0067: 1, H0264: 1, H0059: 1, S0386: 1, T0041: 1, H0494: 1, H0625: 1, S0438: 1, H0641: 1, H0646: 1, S0144: 1, S0344: 1, L0520: 1, L0769: 1, L0638: 1, L0761: 1, L0373: 1, L0768: 1, L0383: 1, L0666: 1, L0664: 1, H0547: 1, H0670: 1, S0328: 1, S0146: 1, H0436: 1, S3012: 1, L0744: 1, L0740: 1, L0752: 1, L0753: 1, H0445: 1, H0653: 1 and H0667: 1.		
HWLOU33	1054790	809	3 - 401	2984	AR096: 3, AR052: 2, AR089: 2, AR060: 2, AR061: 1, AR033: 1, AR053: 1; AR055: 1,		

						AR039: 0, AR104: 0 S0444: 5, S0360: 4, S0408: 3, H0625: 3, H0436: 3, S0358: 2, H0641: 2, L0803: 2, S0374: 2, H0656: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0392: 1, H0427: 1, H0457: 1, H0538: 1, H0547: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0192: 1, H0423: 1 and H0422: 1.		
HKZBM58	1054812	810	33 - 584	2985	Leu-25 to Arg-30, Glu-41 to Thr-56, Met-74 to Asn-81, Tyr-108 to Thr-116, Asp-126 to Gly-131, Met-141 to Asp-149, Pro-170 to Tyr-184.	L0748: 19, S0372: 12, L0747: 12, L0750: 9, S0408: 7, L0752: 7, L0731: 7, L0758: 7, H0031: 6, L0439: 6, L0740: 6, L0769: 5, L0757: 5, L0471: 4, L0065: 4, H0672: 4, H0543: 4, H0341: 3, H0318: 3, H0616: 3, H0413: 3, L0771: 3, L0803: 3, L0790: 3, H0547: 3, H0689: 3, H0658: 3, S0406: 3, H0436: 3, L0779: 3,		

H0686: 2, S0212: 2,
H0662: 2, S0356: 2,
S0358: 2, S0360: 2,
H0675: 2, H0580: 2,
H0370: 2, L0623: 2,
H0486: 2, H0575: 2,
S0010: 2, H0428: 2,
H0628: 2, H0674: 2,
H0038: 2, H0056: 2,
S0440: 2, L0520: 2,
L0764: 2, L0767: 2,
L0794: 2, L0766: 2,
L0775: 2, L0783: 2,
L0809: 2, L0791: 2,
L0665: 2, H0659: 2,
H0651: 2, S0330: 2,
H0539: 2, H0134: 2,
L0754: 2, S0260: 2,
L0362: 2, L0361: 2,
H0668: 2, L0440: 1,
H0265: 1, H0295: 1,
S0114: 1, T0049: 1,
H0484: 1, H0661: 1,
H0638: 1, S0354: 1,
S0007: 1, S0045: 1,
S0132: 1, H0619: 1,
H0411: 1, S0222: 1,
H0392: 1, H0592: 1,
H0333: 1, H0574: 1,
T0039: 1, T0114: 1,

		H0013: 1, L0021: 1, H0599: 1, T0082: 1, S0474: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0597: 1, H0327: 1, H0545: 1, H0178: 1, H0373: 1, S0320: 1, L0171: 1, H0266: 1, H0084: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0644: 1, H0181: 1, L0055: 1, L0455: 1, H0163: 1, H0040: 1, H0551: 1, H0412: 1, S0038: 1, H0100: 1, T0041: 1, H0494: 1, H0560: 1, H0561: 1, H0509: 1, S0150: 1, L0598: 1, H0529: 1, L0763: 1, L0637: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, L0526: 1, L0518: 1, L0519: 1, L0789: 1, L0666: 1, S0374: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0648: 1, H0522: 1, S0146: 1,			

						H0555: 1, S0028: 1, L0742: 1, L0753: 1, H0445: 1, H0595: 1, S0434: 1, L0592: 1, L0485: 1, L0608: 1, S0194: 1 and L0600: 1.		
HTEOV06	1054813	811	311 - 799	2986	Glu-12 to Thr-27, Met-45 to Asn-52, Tyr-79 to Thr-87, Asp-97 to Tyr-103, Met-120 to Asp-128, Pro-149 to Tyr-163.	L0747: 2, H0556: 1, S0134: 1, H0341: 1, S0444: 1, H0013: 1, H0575: 1, H0050: 1, H0687: 1, H0628: 1, H0090: 1, H0616: 1, H0551: 1, S0440: 1, H0710: 1, L0748: 1, L0740: 1 and S0434: 1.		
HAMGH34	1055012	812	1446 - 661	2987	Thr-8 to Ala-15, Lys-29 to Ser-39, Lys-44 to Asn-52, Gly-61 to Pro-68.	H0560: 1, S0426: 1, L0776: 1, L0545: 1, L0588: 1, L0591: 1 and H0542: 1.		
HTEHP29	1055174	813	889 - 305	2988	Gly-1 to His-8, Pro-13 to Asn-30.	L0483: 6, L0749: 5, L0659: 4, L0766: 3, L0591: 3, H0038: 2, L0769: 2, L0665: 2, L0438: 2, H0539: 2, L0758: 2, L0759: 2, L0588: 2, H0650: 1, H0664: 1, S0360: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0169: 1, S0438: 1,		

	HNOJJ32	1055248	814	532 - 1914	2989	Gln-2 to Asp-7, Lys-34 to Arg-53, Gly-61 to Glu-70.	H0046: 13, L0439: 6, S0360: 3, H0024: 3, L0769: 3, L0805: 3, L0748: 3, L0749: 3, H0624: 2, H0100: 2, H0520: 2, S0436: 2, L0592: 2, H0685: 1, H0717: 1, H0661: 1, H0664: 1, H0449: 1, S0420: 1, S0376: 1, S0007: 1, S0476: 1, S0300: 1, L0717: 1, H0156: 1, H0013: 1, L0021: 1, H0575: 1, S0010: 1, S0474: 1, L0738: 1, H0178: 1, H0018: 1, S6028: 1, H0188: 1, H0687: 1, H0252: 1, H0428: 1, H0553: 1, S0036: 1, H0038: 1, H0264: 1, S0038: 1, H0561: 1, S0450: 1, S0422: 1,	S0422: 1, L0770: 1, L0662: 1, L0804: 1, L0776: 1, L0666: 1, S0374: 1, S0310: 1, H0520: 1, S0126: 1, L0748: 1, L0439: 1, L0747: 1 and L0757: 1.		

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HFPHF52	1055304	815	2 - 1333	2990	Ala-1 to Phe-8, Glu-16 to Gly-52, Ser-64 to Glu-80, Leu-94 to Lys-99, Ser-123 to Glu-136, His-157 to Ser-164, Lys-179 to Pro-190, Arg-220 to Glu-226, Phe-244 to Arg-252, Lys-277 to Thr-288, Glu-305 to Gly-310, Glu-328 to Glu-334, Pro-390 to Ala-401, Pro-411 to Gln-417.	L0748: 18, L0754: 14, L0759: 11, S0222: 8, H0144: 8, H0520: 6, L0742: 6, H0013: 5, L0749: 5, H0547: 4, L0602: 4, L0777: 4, H0170: 3, H0393: 3, H0428: 3, H0553: 3, L0520: 3, L0747: 3, H0624: 2, S0346: 2, L0471: 2, H0615: 2, H0644: 2, S0150: 2, H0538: 2, L0626: 2, L0794: 2, L0650: 2, L0805: 2, L0438: 2, L0439: 2, L0751: 2, L0756: 2, L0780: 2, L0755: 2, L0682: 2, L0594: 2, L0718: 2,	19q13.4		

						L0002: 1, L0717: 1, H0369: 1, H0455: 1, H0438: 1, H0642: 1, H0331: 1, H0244: 1, H0156: 1, S0010: 1, H0052: 1, L0118: 1, H0051: 1, S0048: 1, S0051: 1, T0010: 1, S6028: 1, L0142: 1, H0674: 1, T0027: 1, L0435: 1, L0369: 1, L0662: 1, L0658: 1, L0659: 1, L0789: 1, L0790: 1, L0791: 1, L0792: 1, L0666: 1, T0068: 1, H0519: 1, S0122: 1, H0672: 1, H0539: 1, S0260: 1 and L0592: 1.		
HBNMF62	1055381	816	266 - 679	2991	Pro-13 to Gly-25, Arg-47 to Gly-54, Pro-74 to Lys-81, His-87 to Trp-93, Glu-107 to Arg-137.	AR089: 2, AR052: 2, AR055: 2, AR039: 1, AR060: 1, AR096: 1, AR033: 1, AR053: 1, AR061: 1, AR104: 0 L0754: 7, L0748: 4, S0007: 3, L0771: 3, L0749: 3, L0750: 3, L0600: 3, L0717: 2, H0618: 2, H0046: 2, H0561: 2, S0422: 2,		

HTPHO72	1055426	817	2 - 1048	2992	Gly-8 to Arg-14, Pro-24 to Arg-29, Leu-64 to Arg-73, His-91 to Arg-97, Tyr-141 to Thr-148, Glu-153 to Met-158, Asp-173 to Arg-180, Lys-185 to Pro-199, Glu-228 to Asp-235,	L0763: 2, L0637: 2, L0794: 2, L0659: 2, H0660: 2, L0439: 2, L0755: 2, T0002: 1, H0583: 1, H0671: 1, S0354: 1, S6016: 1, H0586: 1, L0021: 1, H0052: 1, S0051: 1, T0010: 1, H0083: 1, H0553: 1, H0135: 1, H0063: 1, H0633: 1, L0639: 1, L0646: 1, L0649: 1, L0375: 1, L0655: 1, L0545: 1, L0647: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1, S0378: 1, H0696: 1, L0751: 1, L0752: 1, L0758: 1, L0759: 1, L0596: 1, L0608: 1 and H0423: 1.	H0547: 8, L0666: 6, S0026: 6, L0803: 5, L0439: 5, L0740: 5, L0754: 5, L0758: 5, L0362: 5, S0242: 5, H0038: 4, S0440: 4, H0529: 4, L0800: 4, L0662: 4, H0648: 4, L0742: 4, L0752: 4,	15q22.33-q24.1	151670, 231680, 276700, 600374, 601780

						L0717: 3, H0550: 3, H0251: 3, H0622: 3, H0553: 3, L0598: 3, L0646: 3, L0794: 3, L0517: 3, H0144: 3, L0438: 3, L0757: 3, L0785: 2, S0212: 2, S0358: 2, S0360: 2, H0013: 2, H0052: 2, H0150: 2, S0003: 2, H0644: 2, H0059: 2, L0520: 2, L0766: 2, L0804: 2, L0806: 2, L0659: 2, H0520: 2, H0593: 2, H0658: 2, S0330: 2, H0521: 2, L0747: 2, L0750: 2, L0756: 2, L0608: 2, H0422: 2, H0170: 1, H0171: 1, H0149: 1, H0713: 1, H0125: 1, S0418: 1, S0376: 1, S0408: 1, H0580: 1, S0045: 1, H0549: 1, S0222: 1, H0612: 1, H0600: 1, H0586: 1, H0574: 1, H0632: 1, L0021: 1, H0575: 1, H0004: 1, L0109: 1, L0738: 1, H0530: 1,
					Leu-244 to Glu-258, Lys-264 to Pro-281, Asn-310 to Ser-316, Glu-331 to Leu-349.	

HOPKL18	1055439	818	2 - 1438	2993	Glu-35 to Pro-41, Ala-55 to Arg-67,	L0041: 1, N0006: 1, H0014: 1, L0163: 1, S0051: 1, H0266: 1, S0214: 1, H0615: 1, H0428: 1, T0006: 1, H0674: 1, H0068: 1, S0036: 1, H0616: 1, H0551: 1, H0100: 1, H0494: 1, H0560: 1, S0472: 1, H0646: 1, L0770: 1, L0639: 1, L0761: 1, L0772: 1, L0773: 1, L0653: 1, L0629: 1, L0657: 1, L0529: 1, L0665: 1, S0374: 1, H0519: 1, H0682: 1, H0659: 1, H0670: 1, H0666: 1, H0672: 1, H0539: 1, S0380: 1, S0404: 1, S0406: 1, H0436: 1, H0478: 1, H0627: 1, S0028: 1, L0777: 1, L0780: 1, L0755: 1, L0731: 1, S0196: 1, H0542: 1, H0423: 1, S0424: 1, L0600: 1 and H0352: 1.	L0754: 95, L0755: 38, H0545: 20, H0617: 14,	22q11.23	123620, 600850

					Ala-82 to Lys-87, Gly-94 to Asp-100, Lys-175 to Asp-181, Asp-185 to Trp-190, Gly-193 to Asp-199, Leu-247 to Trp-252, Pro-278 to Asp-283, Arg-395 to Phe-402, Pro-404 to Asp-410, Pro-412 to Trp-420, Gly-443 to Asp-450.	L0751: 12, H0622: 11, L0731: 10, L0659: 8, L0777: 7, L0759: 7, S0360: 6, H0544: 5, L0764: 5, L0748: 5, H0546: 4, L0750: 4, L0780: 4, L0603: 4, H0620: 3, H0644: 3, H0606: 3, H0059: 3, L0771: 3, L0766: 3, L0806: 3, L0665: 3, H0684: 3, H0618: 2, H0086: 2, H0181: 2, L0644: 2, L0375: 2, L0666: 2, L0664: 2, L0744: 2, L0747: 2, L0779: 2, L0752: 2, L0757: 2, L0758: 2, L0605: 2, H0624: 1, H0171: 1, H0661: 1, H0662: 1, S0046: 1, H0549: 1, H0251: 1, H0012: 1, T0003: 1, H0039: 1, H0553: 1, H0316: 1, H0040: 1, H0477: 1, S0352: 1, L0763: 1, L0769: 1, L0796: 1, L0761: 1, L0772: 1, L0773: 1, L0648: 1, L0807: 1,

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				Leu-45 to Ile-54, Ala-105 to Thr-114, Pro-123 to Leu-130, Leu-167 to Lys-175, Pro-190 to Pro-195, Val-211 to Ser-218.	H0547: 8, L0751: 7, L0777: 6, H0556: 4, H0617: 4, L0435: 4, L0776: 4, L0750: 4, H0253: 3, H0135: 3, H0038: 3, L0774: 3, L0666: 3, S0206: 3, L0605: 3, H0543: 3, H0423: 3, H0624: 2, S0418: 2, L0005: 2, S0007: 2, H0208: 2, S0132: 2, H0013: 2, T0010: 2, H0290: 2, H0213: 2, H0494: 2, L0766: 2, L0659: 2, L0663: 2, L0665: 2, L0438: 2, H0520: 2, H0682: 2, L0743: 2, L0748: 2, L0779: 2, L0758: 2, L0592: 2, H0265: 1, S0040: 1, H0295: 1, S0218: 1, H0657: 1, H0656: 1, S0001: 1, H0402: 1, H0459: 1, S0420: 1, S0046: 1, H0351: 1, H0602: 1, H0586: 1, L0622: 1, H0101: 1, S0280: 1, H0599: 1, H0575: 1, T0082: 1,

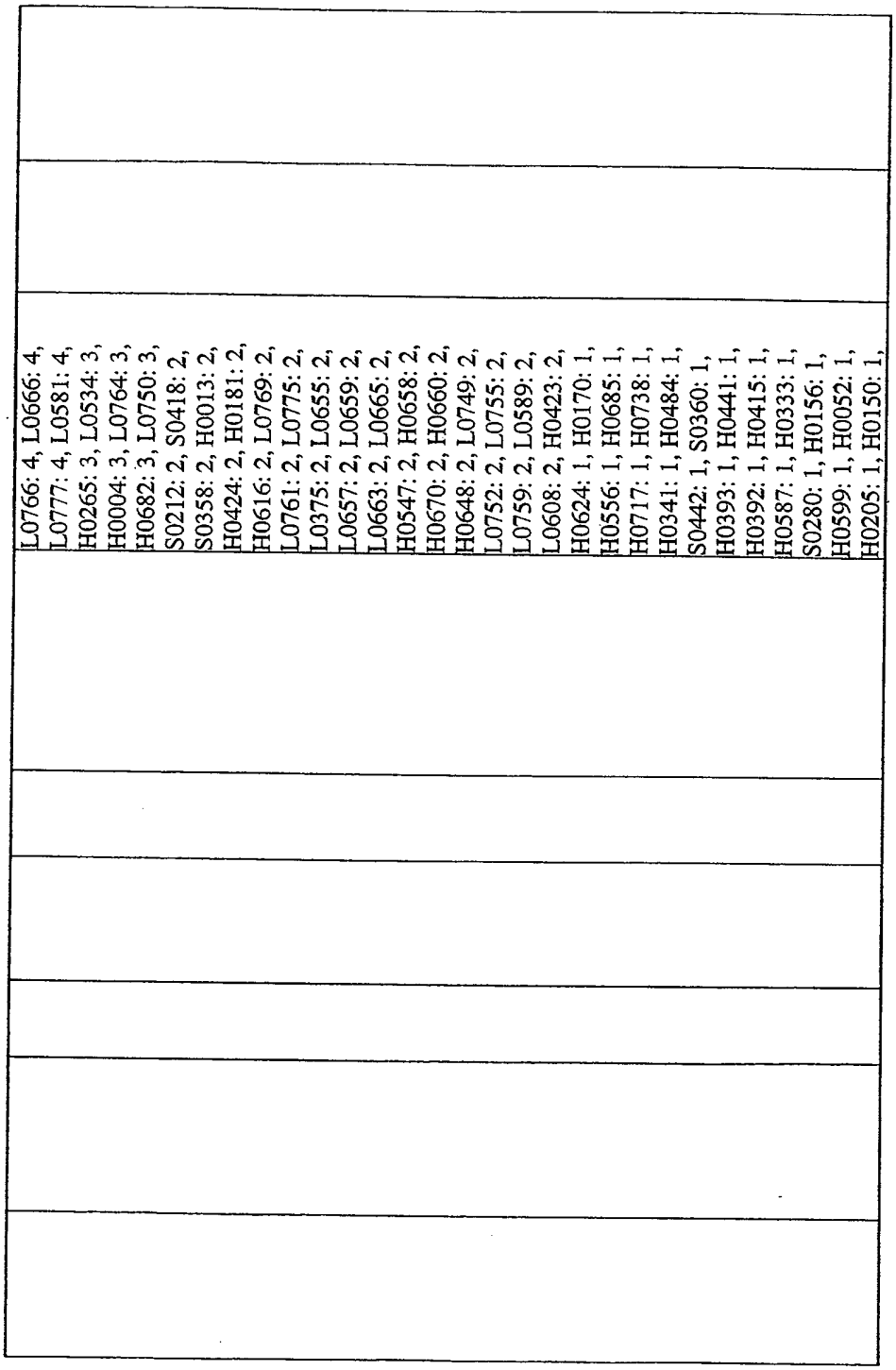
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HTXRR82	1055480	821	408 - 1364	2996	Val-7 to Glu-20, Pro-99 to Lys-105, Glu-113 to Val-119, Ser-136 to Trp-142, Ala-159 to His-164.	H0556: 2, H0135: 2, S0040: 1, H0657: 1, H0586: 1, H0013: 1, H0428: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0775: 1, H0521: 1, L0748: 1, L0749: 1, L0759: 1 and H0543: 1.			
HAIBU62	1055582	822	1 - 1518	2997	Arg-44 to Val-54.	L0439: 9, S0136: 7, L0777: 3, L0779: 2, H0624: 1, H0170: 1, H0686: 1, H0656: 1, S0408: 1, S0132: 1, H0374: 1, H0266: 1, H0551: 1, L0521: 1, L0662: 1, L0794: 1, L0766: 1, L0381: 1, L0803: 1, L0659: 1, L0809: 1, L0663: 1, L0438: 1, H0659: 1, H0539: 1, L0752: 1, L0592: 1 and L0595: 1.			

HDTAY29	1055632	823	1276 - 686	2998		L0731: 5, H0038: 3, L0766: 2, H0683: 2, H0670: 2, H0660: 2, L0747: 2, L0749: 2, L0779: 2, L0758: 2, H0583: 1, S0420: 1, S0360: 1, H0486: 1, H0156: 1, H0599: 1, H0581: 1, H0597: 1, H0247: 1, H0494: 1, H0647: 1, S0210: 1, L0794: 1, L0804: 1, H0436: 1, S0027: 1, L0596: 1, L0485: 1 and H0542: 1.		
HCOQD79	1055767	824	42 - 689	2999	Trp-8 to Gly-16, Ala-18 to Ala-26, His-28 to His-41, Pro-79 to Glu-85.	L0769: 3, H0484: 1, H0546: 1, H0178: 1, H0553: 1, S0366: 1, L0770: 1, L0761: 1, L0772: 1, L0372: 1, L0374: 1, L0645: 1, L0771: 1, L0766: 1, L0653: 1, L0666: 1, L0664: 1, H0670: 1, S0406: 1, L0777: 1, L0601: 1 and S0446: 1.	16p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273,

HAMHN12	1055899	825	2 - 1129	3000	Ala-20 to Arg-28, Gly-37 to Thr-47, Pro-50 to Asn-56, Pro-77 to Ala-82, Thr-114 to Ala-119, Pro-133 to Thr-141, Gly-150 to Cys-161, Pro-165 to Asn-177, Thr-179 to Gly-188, Glu-198 to Cys-212, Ile-216 to Arg-222, Val-254 to Arg-265, Ser-271 to Leu-276, Lys-281 to Asn-286, Pro-341 to Lys-346, Ala-349 to Met-355.	AR096: 626, AR039: 392, AR089: 360, AR053: 315, AR060: 315, AR033: 157, AR104: 153, AR061: 115, AR055: 31 L0518: 7, L0777: 6, L0809: 5, L0744: 4, L0649: 2, L0659: 2, H0658: 2, L0748: 2, L0747: 2, L0750: 2, H0411: 1, H0013: 1, L0021: 1, H0123: 1, H0050: 1, H0163: 1, H0560: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0662: 1, L0375: 1, L0776: 1, L0439: 1, L0749: 1, L0779: 1 and L0599: 1.		601313, 601785
HODIY67	1056000	826	2 - 1957	3001	Ala-27 to Lys-35, Arg-63 to Ile-70, Tyr-100 to Ala-105, Ser-159 to Thr-168.	L0766: 6, L0776: 6, L0777: 5, L0803: 4, L0731: 3, L0759: 3, S0222: 2, H0013: 2, L0157: 2, L0805: 2, L0666: 2, H0521: 2, L0740: 2, L0361: 2, H0170: 1, H0171: 1,	15q	

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					Thr-103 to Thr-108.	AR033: 1 L0665: 4, H0659: 2, H0553: 1, H0038: 1, L0659: 1, L0777: 1, L0758: 1 and L0601: 1.		253260, 278720, 601154, 601253, 602011
HOPKD19	1056275	830	158 - 1084	3005	Ala-95 to Ser-101, Pro-103 to Asp-108, Glu-177 to Lys-183, Lys-226 to Lys-234, Leu-252 to Gly-257, Gln-293 to Ser-301.	H0556: 29, L0748: 28, L0745: 18, H0620: 16, H0040: 15, L0595: 14, H0547: 13, S0358: 12, L0777: 12, H0559: 11, S0046: 9, S0440: 9, L0740: 9, H0265: 8, H0494: 8, L0751: 8, H0341: 7, S0408: 7, L0646: 7, S0126: 7, L0746: 7, L0747: 7, H0543: 7, H0657: 6, H0318: 6, H0052: 6, H0135: 6, L0775: 6, L0655: 6, L0666: 6, H0519: 6, S0406: 6, S0045: 5, H0486: 5, H0581: 5, H0024: 5, L0375: 5, L0659: 5, H0520: 5, S0206: 5, L0750: 5, L0752: 5, T0002: 4, H0717: 4, H0484: 4, S0376: 4, H0497: 4, H0257: 4, H0545: 4, H0644: 4,	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096

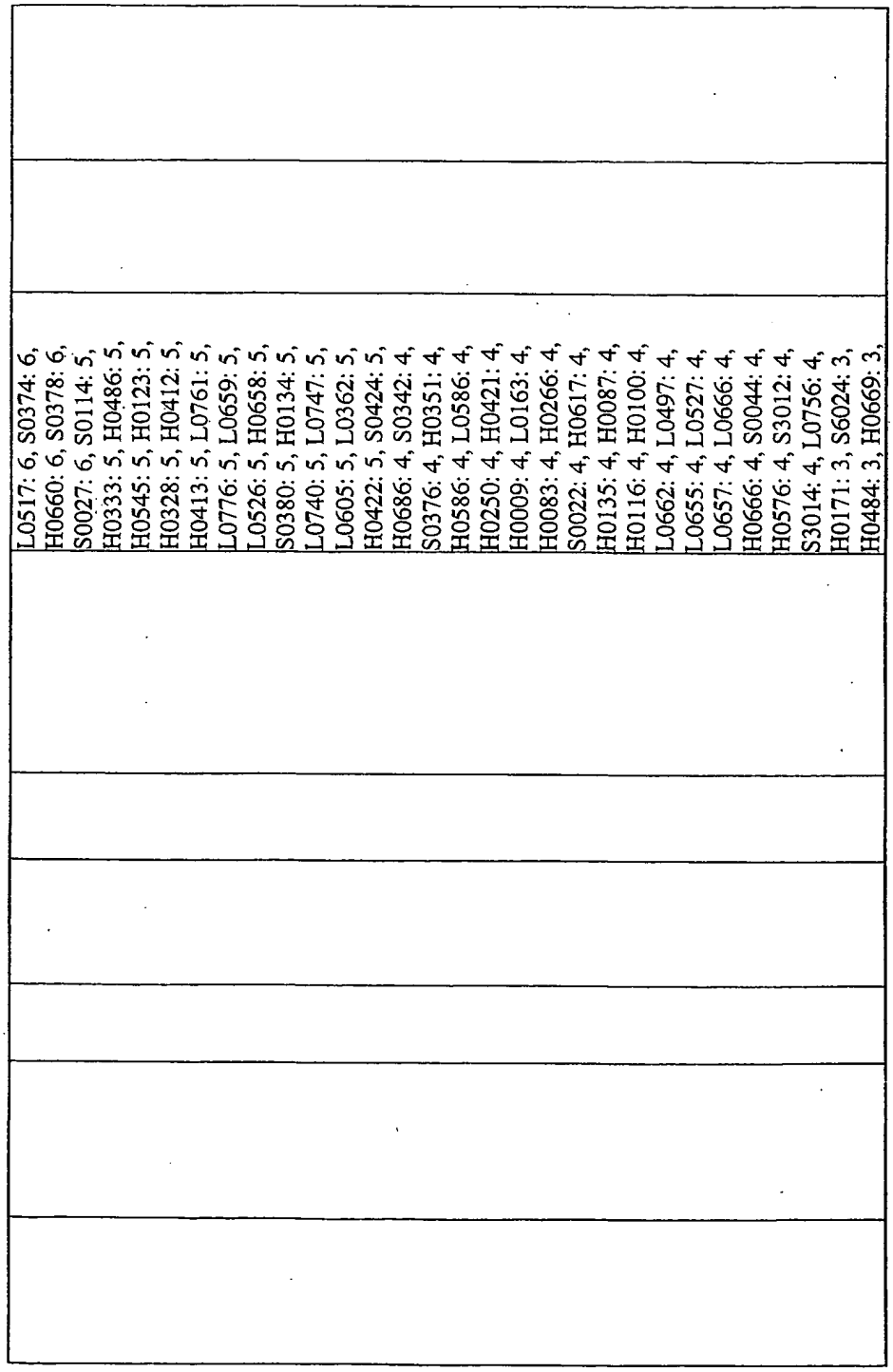
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S3014: 4, L0756: 4,
H0171: 3, S6024: 3,
H0484: 3, H0669: 3,

S0410: 3, H0497: 3, H0632: 3, L0623: 3, H0599: 3, H0575: 3, T0048: 3, H0581: 3, H0597: 3, H0039: 3, H0644: 3, H0163: 3, H0551: 3, T0067: 3, T0041: 3, H0509: 3, S0422: 3, H0529: 3, L0770: 3, L0769: 3, L0648: 3, L0768: 3, L0364: 3, L0375: 3, L0806: 3, L0782: 3, L0543: 3, H0682: 3, S0328: 3, S0330: 3, L0751: 3, S0031: 3, H0445: 3, H0595: 3, L0594: 3, S0026: 3, H0665: 3, H0423: 3, L0600: 3, T0002: 2, H0685: 2, H0294: 2, S0218: 2, H0650: 2, H0483: 2, H0255: 2, H0671: 2, H0662: 2, H0306: 2, H0402: 2, S0420: 2, H0580: 2, H0393: 2, H0438: 2, H0592: 2, H0587: 2, L0622: 2, T0060: 2, H0156: 2, H0098: 2,						

		T0082: 2, S0010: 2, S0182: 2, H0318: 2, H0309: 2, T0115: 2, T0110: 2, H0012: 2, H0023: 2, H0024: 2, H0057: 2, H0015: 2, H0687: 2, H0286: 2, S0003: 2, H0688: 2, H0428: 2, T0006: 2, S0036: 2, H0090: 2, H0040: 2, H0059: 2, H0625: 2, H0646: 2, S0210: 2, L0598: 2, L0763: 2, L0500: 2, L0501: 2, L0549: 2, L0803: 2, L0376: 2, L0653: 2, L0542: 2, H0547: 2, H0214: 2, H0187: 2, S0392: 2, S0390: 2, L0742: 2, H0444: 2, L0596: 2, L0589: 2, L0590: 2, L0581: 2, L0599: 2, L0603: 2, H0668: 2, H0653: 2, S0192: 2, H0542: 2, S0452: 2, H0506: 2, L0615: 1, H0394: 1, H0159: 1, S0134: 1, H0583: 1, H0656: 1, L0760: 1,				

		L0785: 1, S0116: 1, S0212: 1, H0661: 1, H0663: 1, H0664: 1, H0589: 1, S0444: 1, H0675: 1, H0489: 1, H0730: 1, S0278: 1, H0369: 1, H0441: 1, H0492: 1, T0040: 1, H0013: 1, H0069: 1, H0635: 1, H0209: 1, H0251: 1, H0085: 1, H0263: 1, H0231: 1, H0327: 1, H0546: 1, H0150: 1, H0081: 1, T0003: 1, H0082: 1, H0373: 1, S0051: 1, H0510: 1, H0375: 1, L0171: 1, H0188: 1, S0336: 1, H0112: 1, H0048: 1, H0606: 1, L0055: 1, H0032: 1, H0166: 1, H0169: 1, H0211: 1, H0068: 1, S0366: 1, H0316: 1, H0634: 1, H0062: 1, H0155: 1, H0477: 1, H0488: 1, S0038: 1, H0279: 1, S0448: 1, S0464: 1, L0065: 1, H0131: 1, H0130: 1,				

HISBE12	1056376	832	53 - 1276	3007	Leu-76 to Lys-84, Lys-90 to Leu-97, His-115 to Thr-120, Pro-128 to Trp-136, Asp-393 to Ala-403.	AR096: 6, AR060: 6, AR089: 5, AR052: 5, AR053: 3, AR033: 3, AR055: 1, AR061: 1, AR104: 1, AR039: 0	H0641: 1, H0647: 1, S0144: 1, S0142: 1, L0640: 1, L0637: 1, L0646: 1, L0764: 1, L0363: 1, L0794: 1, L0766: 1, L0499: 1, L0522: 1, L0774: 1, L0775: 1, L0651: 1, L0378: 1, L0805: 1, L0509: 1, L0652: 1, L0555: 1, L0513: 1, L0656: 1, L0559: 1, L0384: 1, L0809: 1, L0529: 1, L0368: 1, L0532: 1, H0691: 1, H0520: 1, H0519: 1, H0684: 1, H0651: 1, S0454: 1, S0013: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0731: 1, H0343: 1, L0592: 1, L0485: 1, L0608: 1, L0593: 1, H0217: 1, H0216: 1, H0008: 1 and H0352: 1.		

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HAJAH48	1056400	833	1 - 210	3008	Lys-10 to Ser-16, Pro-30 to Ala-36.	H0635: 1 and H0561: 1.		
HSKJC61	1056407	834	210 - 1436	3009	His-8 to Gly-18, Pro-58 to Lys-68, Gln-109 to Lys-115, Val-175 to Pro-180, Ser-221 to Asp-228, Thr-256 to His-261, Asp-287 to Asp-294, Thr-321 to Asp-328, Asn-349 to Ile-357, Phe-376 to Glu-386, Pro-396 to Ser-409.	AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR061: 2, AR053: 2, AR039: 2, AR104: 2, AR033: 2 S0132: 2, S0358: 1, H0615: 1, T0023: 1, H0435: 1, S3014: 1, L0740: 1, L0591: 1 and L0362: 1.		
HEEBK29	1056454	835	1015 - 3060	3010			21q22.3	120220, 120240, 123580, 151385,

							171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
						L0751: 25, L0665: 23, H0656: 12, L0743: 10, H0617: 9, H0620: 8, L0657: 8, H0318: 7, H0658: 7, H0650: 5, H0483: 5, H0657: 4, H0012: 4, H0024: 4, H0689: 4, H0341: 3, H0484: 3, H0618: 3, H0253: 3, H0688: 3, H0659: 3, H0670: 3, L0603: 3, S0358: 2, H0052: 2, H0615: 2, H0264: 2, H0100: 2, L0763: 2, L0637: 2, L0651: 2, L0659: 2, L0791: 2, L0663: 2, H0555: 2, L0748: 2, L0779: 2, S0282: 1, H0255: 1, H0306: 1, S0045: 1, L0717: 1,
					3011		
				1 - 1182			
			836				
		1056617					
	HCHMM19						

						L0394: 1, H0549: 1, S6016: 1, S0222: 1, H0455: 1, H0635: 1, H0427: 1, S0280: 1, H0042: 1, H0122: 1, H0123: 1, H0050: 1, L0163: 1, H0356: 1, H0399: 1, H0594: 1, H0252: 1, H0553: 1, H0181: 1, H0673: 1, L0638: 1, L0639: 1, L0662: 1, L0766: 1, L0804: 1, L0666: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0660: 1, H0672: 1, L0754: 1, L0758: 1, S0458: 1, S0456: 1 and H0352: 1.		
HE8NG02	1056625	837	85 - 1041	3012	Thr-2 to Asn-10, Ser-72 to Lys-78, Gly-95 to Thr-101, Phe-134 to Ile-147, Lys-163 to Lys-172, Gln-199 to Glu-206, Ala-212 to Trp-224, Lys-230 to His-236, Arg-238 to Glu-244, Asp-249 to Gly-254, Met-260 to Tyr-266,	AR052: 4, AR039: 3, AR055: 3, AR060: 3, AR061: 3, AR089: 2, AR033: 2, AR053: 2, AR096: 1, AR104: 1 H0624: 4, H0170: 3, H0328: 3, H0329: 2, H0013: 2, L0747: 2, L0777: 2, H0046: 1 and L0759: 1.		

					Arg-272 to Arg-279.			
HWHKD22	1056654	838	1287 - 601	3013	Thr-32 to His-38, Thr-46 to Asn-55, Asn-158 to Gly-165, Thr-191 to Asn-199.	AR096: 14, AR089: 14, AR033: 10, AR061: 8, AR060: 8, AR052: 7, AR055: 6, AR053: 5, AR104: 3, AR039: 2 L0766: 3, L0659: 3, L0744: 3, L0794: 2, L0805: 2, L0665: 2, H0648: 2, H0305: 1, H0586: 1, H0599: 1, H0428: 1, H0551: 1, S0038: 1, S0422: 1, L0763: 1, L0637: 1, L0662: 1, L0803: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0661: 1, L0787: 1, S0374: 1, H0520: 1, L0740: 1, L0750: 1, L0777: 1, L0752: 1, L0759: 1 and L0592: 1.		
HOCPJ87	1056666	839	22 - 1125	3014	Glu-5 to His-15, Phe-20 to Lys-41, Gln-43 to Tyr-49, Asn-146 to Thr-152, His-157 to Phe-164, Arg-181 to Gly-191, Lys-219 to Asn-224,	L0777: 6, L0766: 5, L0747: 5, L0744: 4, H0660: 3, L0750: 3, H0657: 2, L0769: 2, S0298: 1, S0360: 1, H0730: 1, H0592: 1, H0544: 1, H0629: 1,	18p11.3-p11.2	142946, 202200

					Lys-261 to Leu-278, Thr-291 to Asn-297, Glu-302 to Thr-312, Ser-316 to Thr-342, Gln-344 to Asp-367.	S0334: 1, S0003: 1, H0591: 1, H0641: 1, L0598: 1, H0529: 1, L0762: 1, L0502: 1, L0763: 1, L0372: 1, L0646: 1, L0644: 1, L0768: 1, L0775: 1, L0806: 1, L0527: 1, H0144: 1, L0438: 1, H0690: 1, H0658: 1, H0648: 1, S0146: 1, S0406: 1, L0740: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, L0731: 1, L0758: 1, L0759: 1, S0434: 1 and H0506: 1.
HAAAA59	1056671	840	3 - 2765	3015	Lys-6 to Ser-15, Ser-23 to Ala-28, Thr-81 to Gln-89, Gln-191 to Gly-198.	H0694: 92, L0766: 9, L0747: 8, S0126: 7, L0439: 7, H0266: 6, L0776: 6, L0666: 6, L0748: 6, L0759: 6, H0622: 5, H0038: 5, H0623: 5, L0763: 5, L0659: 5, H0656: 4, S0358: 4, S0476: 4, H0486: 4, H0013: 4, L0598: 4, H0529: 4, L0662: 4, L0805: 4, L0655: 4, L0663: 4,

		H0521: 4, S0434: 4, H0657: 3, H0497: 3, H0574: 3, H0328: 3, H0615: 3, H0644: 3, H0551: 3, L0770: 3, L0764: 3, L0665: 3, H0144: 3, S0374: 3, H0547: 3, H0659: 3, S0330: 3, L0752: 3, H0445: 3, S0436: 3, H0717: 2, H0638: 2, S0045: 2, L0717: 2, S0414: 2, H0485: 2, S0280: 2, H0156: 2, S0010: 2, H0032: 2, H0494: 2, S0440: 2, S0422: 2, L0667: 2, L0646: 2, L0768: 2, L0652: 2, L0438: 2, H0658: 2, H0539: 2, S0044: 2, H0555: 2, L0744: 2, L0751: 2, L0749: 2, L0777: 2, L0731: 2, L0758: 2, L0592: 2, L0581: 2, L0593: 2, H0653: 2, S0276: 2, H0543: 2, L0411: 1, H0556: 1, H0220: 1, H0738: 1, S0114: 1, T0049: 1,				

H0583: 1, H0650: 1, S0116: 1, H0341: 1, S0212: 1, S0356: 1, S0354: 1, S0444: 1, S0360: 1, S0408: 1, H0722: 1, S0132: 1, H0619: 1, H0393: 1, H0437: 1, S0222: 1, H0431: 1, H0592: 1, H0586: 1, H0349: 1, H0036: 1, L0105: 1, T0048: 1, H0581: 1, H0374: 1, H0046: 1, H0123: 1, H0050: 1, L0471: 1, H0355: 1, S0250: 1, H0688: 1, H0029: 1, H0039: 1, L0483: 1, T0006: 1, H0553: 1, L0055: 1, H0169: 1, H0124: 1, H0068: 1, H0316: 1, H0591: 1, H0264: 1, H0268: 1, H0413: 1, H0056: 1, T0042: 1, S0016: 1, H0561: 1, S0438: 1, H0509: 1, S0150: 1, H0641: 1, H0646: 1, S0142: 1, S0344: 1, S0426: 1, L0371: 1, L0771: 1,						

						L0521: 1, L0649: 1, L0389: 1, L0803: 1, L0804: 1, L0775: 1, L0661: 1, L0629: 1, L0657: 1, L0367: 1, L0789: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, S0378: 1, H0518: 1, S0152: 1, S0350: 1, H0522: 1, H0704: 1, S0406: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0757: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, S0194: 1, H0423: 1, S0424: 1 and H0008: 1.		
HOSBJ18	1056672	841	422 - 2026	3016	Ile-15 to Lys-33, Phe-99 to Lys-104, Ile-107 to Cys-114.	L0779: 8, L0665: 6, L0731: 6, L0662: 4, L0663: 4, L0754: 4, H0486: 3, H0013: 3, S6028: 3, H0031: 3, L0598: 3, L0776: 3, L0666: 3, H0144: 3, S0126: 3, S0026: 3, S0214: 2, H0428: 2,		

		H0163: 2, H0090: 2, H0488: 2, L0649: 2, L0775: 2, H0660: 2, L0751: 2, L0756: 2, L0755: 2, L0758: 2, L0759: 2, L0596: 2, H0624: 1, S0046: 1, H0645: 1, H0586: 1, H0250: 1, H0156: 1, H0318: 1, T0071: 1, S0049: 1, H0457: 1, L0471: 1, H0057: 1, H0239: 1, H0266: 1, H0687: 1, S0003: 1, H0615: 1, H0553: 1, H0644: 1, H0316: 1, H0598: 1, H0591: 1, S0294: 1, S0150: 1, UNKWN: 1, L0763: 1, L0646: 1, L0766: 1, L0375: 1, L0527: 1, L0659: 1, L0518: 1, L0438: 1, H0593: 1, H0435: 1, H0648: 1, S0380: 1, S0152: 1, H0521: 1, H0627: 1, S0390: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0362: 1 and H0543: 1.			

HUSGX12	1056736	842	2 - 838	3017	Arg-1 to Thr-6, Arg-86 to Gly-91, Ser-102 to Leu-107, Leu-111 to Arg-122, Arg-140 to Gly-145, Glu-170 to Ser-195, Pro-200 to Thr-221, Gly-234 to Asp-250.	L0750: 4, H0622: 3, L0792: 3, H0619: 2, H0050: 2, L0759: 2, H0624: 1, H0661: 1, L0005: 1, S0376: 1, S0360: 1, H0575: 1, H0597: 1, H0687: 1, H0412: 1, L0065: 1, L0761: 1, L0800: 1, L0794: 1, L0784: 1, L0807: 1, H0690: 1, H0672: 1, S0206: 1, L0748: 1, L0751: 1, L0747: 1, L0779: 1 and H0445: 1.		
HPDRG02	1056764	843	2 - 1405	3018		S0360: 18, L0794: 15, L0748: 13, L0740: 10, H0521: 9, L0666: 8, L0766: 7, L0439: 7, H0046: 6, H0031: 6, L0803: 6, L0783: 6, H0547: 6, S0436: 6, L0595: 6, H0318: 5, H0494: 5, L0769: 5, L0764: 5, L0779: 5, S0192: 5, H0486: 4, L0770: 4, H0658: 4, S0152: 4, L0751: 4, L0747: 4, L0750: 4, L0777: 4, L0757: 4,	7	

	S0242: 4, H0556: 3, S0408: 3, H0013: 3, H0620: 3, H0083: 3, S0250: 3, H0615: 3, H0213: 3, H0090: 3, H0268: 3, H0646: 3, L0800: 3, L0653: 3, L0809: 3, L0663: 3, H0689: 3, S3014: 3, L0749: 3, L0731: 3, L0596: 3, L0601: 3, H0657: 2, S0116: 2, H0341: 2, H0661: 2, S0418: 2, S0358: 2, S0045: 2, S0476: 2, H0393: 2, H0587: 2, H0574: 2, H0069: 2, T0048: 2, H0263: 2, H0544: 2, L0471: 2, H0673: 2, H0135: 2, H0591: 2, H0551: 2, H0412: 2, H0413: 2, S0440: 2, H0509: 2, H0131: 2, S0142: 2, S0002: 2, L0772: 2, L0662: 2, L5564: 2, L0655: 2, L0659: 2, L0647: 2, L0788: 2, L0664: 2, L0438: 2, H0519: 2, S0126: 2,						

		H0672: 2, H0696: 2, S0406: 2, S0027: 2, L0753: 2, S0434: 2, L0587: 2, L0599: 2, L0608: 2, S0196: 2, H0543: 2, H0265: 1, S0040: 1, H0295: 1, H0294: 1, S0218: 1, S0001: 1, H0638: 1, L0534: 1, L0562: 1, S0354: 1, S0410: 1, H0208: 1, S0046: 1, S0132: 1, S0278: 1, H0261: 1, H0549: 1, H0550: 1, S0222: 1, H0610: 1, H0497: 1, H0333: 1, H0632: 1, H0485: 1, H0270: 1, H0156: 1, L0021: 1, S0010: 1, H0581: 1, H0052: 1, H0085: 1, H0596: 1, L0040: 1, H0231: 1, H0546: 1, H0569: 1, H0050: 1, H0012: 1, H0024: 1, H0015: 1, H0594: 1, H0266: 1, H0688: 1, H0622: 1, H0424: 1, L0055: 1, H0038: 1, H0087: 1, T0067: 1,			

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HKZBB48	1056767	844	230 - 1660	3019	Ser-6 to Asp-14, Asp-24 to Glu-32, Asn-56 to Gln-62, Pro-83 to Pro-92, Gly-152 to Glu-169,	L0754: 5, L0758: 5, L0777: 4, L0752: 4, H0574: 3, S0003: 3, L0803: 3, L0790: 3, L0666: 3, H0624: 2,	5q23.3-q31.1		121050, 131400, 147061, 147575, 147575,

						147575, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 602089
	Arg-376 to Lys-384, Glu-393 to Ser-406, Ser-441 to Gly-453.				S0358: 2, S0222: 2, L0369: 2, L0771: 2, L0768: 2, L0804: 2, L0774: 2, L0775: 2, L0776: 2, L0663: 2, H0539: 2, L0742: 2, L0748: 2, L0439: 2, L0750: 2, L0756: 2, L0779: 2, H0170: 1, L0002: 1, L0785: 1, S0356: 1, S0360: 1, H0580: 1, H0411: 1, H0437: 1, H0586: 1, H0497: 1, H0013: 1, L0021: 1, H0263: 1, H0050: 1, S0388: 1, H0060: 1, H0674: 1, H0090: 1, H0591: 1, L0564: 1, S0440: 1, L0648: 1, L0521: 1, L0794: 1, L0806: 1, L0655: 1, L0657: 1, L0783: 1, L0809: 1, L0789: 1, L0664: 1, H0144: 1, H0519: 1, H0689: 1, H0683: 1, H0704: 1, H0555: 1, L0740: 1, L0745: 1, L0749: 1, L0731: 1, L0759: 1 and L0601: 1.

HHAWB19	1056774	845	3 - 1316	3020	Pro-1 to Pro-9.	S0418: 1, H0580: 1, S0278: 1, H0013: 1, H0046: 1 and H0547: 1.	1q42-q44	106150, 106150, 145260, 173870, 173870, 600759, 600996, 601744, 601975
HHATP38	1056786	846	3 - 650	3021	Arg-16 to Arg-22, Ser-52 to Lys-62, Ala-73 to Arg-78, Arg-153 to Leu-169, Arg-172 to Leu-195, Glu-203 to Arg-216.	AR104: 5, AR089: 5, AR060: 2, AR055: 2, AR096: 2, AR061: 1	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770,

								600045, 600319, 600528, 601884
HVVBE07	1056801	847	645 - 983	3022	Tyr-47 to Arg-58.	S0053: 3, H0551: 2, S0418: 1, S0046: 1, H0486: 1, H0355: 1, L0771: 1, H0672: 1, S0206: 1, L0605: 1 and S0276: 1.		
HKAHB85	1056804	848	1 - 831	3023	Val-212 to Phe-223.	L0731: 9, H0617: 7, L0769: 7, L0809: 6, L0806: 5, S0328: 5, L0745: 4, L0764: 3, L0754: 3, H0624: 2, S0360: 2, H0550: 2, H0333: 2, H0086: 2, H0011: 2, H0266: 2, H0615: 2, H0424: 2, H0494: 2, L0770: 2, L0794: 2, L0649: 2, L0803: 2, L0804: 2, L0774: 2, L0493: 2, L0666: 2, H0658: 2, L0742: 2, L0743: 2, L0747: 2, L0755: 2, L0757: 2, L0591: 2, L0593: 2, L0697: 2, S0424: 2, H0170: 1, H0556: 1, H0294: 1,	19p13.1	143890, 151440, 600173, 600276, 600310, 600310, 601604, 601843

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HUSXA15	1056810	849	303 - 1	3024		S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5, L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2,	2q33-q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 213700, 262000, 600258, 601277, 601318

		S0378: 2, S0380: 2, S0406: 2, L0439: 2, L0759: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0644: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1,			

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HNOCH54	1056839	850	1 - 1953	3025	Pro-8 to Glu-16, Lys-29 to Gly-34, Gly-85 to Glu-92, Lys-165 to Glu-172, Glu-180 to Ser-186, Ser-210 to Arg-215, Glu-278 to Gln-288, Lys-377 to Glu-383, Lys-405 to Gly-410, Lys-468 to Glu-474, Asn-483 to Arg-488, Gln-496 to Glu-502, Val-555 to Gly-561, Glu-611 to Pro-623, Lys-631 to Trp-638, Phe-641 to Gly-649.			
HOCPP16	1056856	851	1039 - 392	3026	Gly-20 to Tyr-30, Asn-40 to Glu-46, Ser-66 to Gly-75, Lys-85 to Gly-97, Glu-104 to Arg-115, Pro-135 to Pro-140, Pro-150 to Asn-159,	S0212: 20, L0751: 14, L0663: 11, L0731: 11, H0083: 10, L0657: 10, L0666: 10, H0547: 10, H0550: 7, H0620: 6, L0769: 6, H0689: 6, H0123: 5, H0428: 5,		

	Leu-167 to Glu-173, Ile-191 to Glu-196, Val-210 to Gln-216.					L0662: 5, S0356: 4, H0059: 4, L0664: 4, H0520: 4, H0670: 4, L0581: 4, S0418: 3, L0717: 3, H0618: 3, H0494: 3, S0438: 3, L0770: 3, L0659: 3, H0683: 3, H0660: 3, L0747: 3, L0758: 3, S0434: 3, H0543: 3, H0624: 2, H0295: 2, H0341: 2, H0662: 2, S0358: 2, S0360: 2, H0675: 2, S0408: 2, H0251: 2, H0051: 2, H0594: 2, H0687: 2, H0615: 2, H0031: 2, H0413: 2, H0100: 2, L0637: 2, L0648: 2, L0803: 2, L0774: 2, L0783: 2, L0665: 2, S0374: 2, S0126: 2, H0658: 2, H0672: 2, S0378: 2, S0406: 2, L0439: 2, L0605: 2, H0352: 2, H0170: 1, H0686: 1, H0685: 1, H0294: 1, S0180: 1, S0298: 1, H0661: 1, H0664: 1, S0420: 1,

HNOAH83	1056862	852	3 - 848	3027	Val-2 to Val-7.	S0442: 1, S0354: 1, S0376: 1, H0637: 1, H0329: 1, S0007: 1, H0208: 1, H0645: 1, H0549: 1, H0391: 1, H0392: 1, H0331: 1, H0632: 1, T0109: 1, H0575: 1, H0545: 1, H0009: 1, H0024: 1, H0057: 1, H0373: 1, H0188: 1, H0288: 1, H0286: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0564: 1, S0440: 1, L0772: 1, L0374: 1, L0794: 1, L0652: 1, L0653: 1, L0809: 1, L0543: 1, H0693: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0666: 1, S0330: 1, S0380: 1, H0696: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0597: 1, L0599: 1, H0542: 1 and S0384: 1.	H0617: 18, H0545: 12,	11p15.5	125852,

						126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
					L0439: 11, L0743: 10, L0751: 10, H0295: 8, L0757: 8, S0212: 7, S0360: 7, L0662: 7, H0551: 6, H0494: 6, S0027: 6, L0779: 6, H0550: 5, H0575: 5, H0253: 5, H0039: 5, L0659: 5, H0521: 5, L0747: 5, S0408: 4, S0046: 4, H0427: 4, H0599: 4, H0546: 4, H0014: 4, L0764: 4, L0774: 4, L0438: 4, S0126: 4, H0672: 4, L0731: 4, S0434: 4, H0255: 3, H0662: 3, S0354: 3, S0358: 3, S0045: 3, H0370: 3, S0280: 3, H0309: 3, H0046: 3, H0266: 3, H0412: 3, H0413: 3, S0440: 3, H0509: 3, L0769: 3, L0775: 3, L0666: 3, H0520: 3, S0330: 3, H0539: 3, L0744: 3, L0777: 3, S0011: 3, S0192: 3, H0484: 2, H0661: 2, S0420: 2, S0356: 2,			

		S0376: 2, S0410: 2, H0580: 2, S0007: 2, H0208: 2, S0132: 2, S0278: 2, H0549: 2, H0592: 2, H0486: 2, H0706: 2, H0590: 2, S0474: 2, H0251: 2, H0204: 2, H0544: 2, L0163: 2, H0188: 2, H0687: 2, H0622: 2, H0040: 2, H0560: 2, S0142: 2, S0210: 2, L0637: 2, L0768: 2, L0651: 2, L0527: 2, L0782: 2, L0783: 2, L0528: 2, L0663: 2, S0374: 2, H0547: 2, H0651: 2, L0602: 2, H0522: 2, H0555: 2, L0740: 2, L0754: 2, L0758: 2, S0196: 2, H0542: 2, H0624: 1, H0265: 1, S0040: 1, S0342: 1, H0713: 1, H0294: 1, H0583: 1, S0180: 1, S0001: 1, H0663: 1, H0664: 1, S0418: 1, S0444: 1, H0675: 1, H0619: 1, H0392: 1, T0104: 1,			

H0587: 1, H0333: 1, H0559: 1, L0623: 1, T0040: 1, H0013: 1, H0069: 1, H0108: 1, H0036: 1, H0196: 1, H0052: 1, H0085: 1, H0205: 1, H0150: 1, H0041: 1, H0009: 1, H0123: 1, H0012: 1, H0023: 1, H0024: 1, S0388: 1, S0051: 1, H0510: 1, H0594: 1, H0284: 1, H0286: 1, S0250: 1, H0688: 1, H0428: 1, T0023: 1, H0213: 1, H0030: 1, H0553: 1, L0142: 1, H0628: 1, H0181: 1, H0606: 1, H0674: 1, S0364: 1, H0135: 1, H0372: 1, H0087: 1, H0264: 1, H0269: 1; H0623: 1, H0059: 1, L0564: 1, H0625: 1, H0633: 1, H0646: 1, H0529: 1, L0770: 1, L3904: 1, L0772: 1, L0372: 1, L0800: 1, L0773: 1, L0533: 1, L0375: 1, L0376: 1,						

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HE2OU10	1056875	853	79 - 480	3028	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	L0743: 4, L0749: 4, L0731: 4, H0265: 2, H0213: 2, H0169: 2, H0038: 2, H0543: 2, H0170: 1, H0556: 1, H0341: 1, H0661: 1, S0420: 1, S0360: 1, H0639: 1, H0438: 1, H0036: 1, H0253: 1, S0010: 1, H0052: 1, H0327: 1, H0530: 1, H0009: 1, L0471: 1, H0644: 1, L0055: 1,	22q13.2-q13.31	188826, 250100, 250800, 250800

						S0144: 1, S0002: 1, L0775: 1, H0691: 1, H0659: 1, H0648: 1, S0350: 1, S3012: 1, L0748: 1, L0740: 1, L0754: 1, L0747: 1, L0750: 1, L0753: 1, L0755: 1, L0758: 1 and S0276: 1.		
HODGM46	1056927	854	884 - 738	3029	Ser-13 to His-19, Gly-41 to Arg-49.	H0615: 3		
HODFR44	1056990	855	2 - 469	3030	Arg-17 to Lys-33.	AR055: 28, AR053: 28, AR033: 26, AR052: 22, AR089: 20, AR061: 13, AR060: 13, AR039: 11, AR096: 10, AR104: 5 L0751: 4, L0439: 3, L0777: 3, L0779: 2, L0758: 2, H0650: 1, H0328: 1, H0615: 1, L0435: 1, L0769: 1, L0649: 1, L0650: 1, L0774: 1, L0376: 1, L0789: 1 and H0343: 1.		
HCHND12	1057009	856	100 - 333	3031	Arg-27 to Trp-35.	H0664: 9, H0370: 8, H0059: 8, H0483: 4, S0410: 4, L0751: 4, L0747: 4, L0750: 4, H0484: 3, L0664: 3,	17q11.2-17q12	144200, 148066, 148066, 148067, 148067,

	L0749: 3, H0661: 2, S0418: 2, S0408: 2, H0246: 2, H0615: 2, H0617: 2, L0637: 2, L0766: 2, L0659: 2, L0783: 2, L0665: 2, S0374: 2, H0682: 2, H0666: 2, L0754: 2, L0759: 2, L0596: 2, H0506: 2, H0624: 1, S0114: 1, S0420: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0222: 1, H0156: 1, H0590: 1, H0196: 1, L0040: 1, H0597: 1, H0457: 1, H0188: 1, H0688: 1, H0622: 1, H0424: 1, H0030: 1, H0553: 1, H0644: 1, H0673: 1, H0124: 1, S0440: 1, S0472: 1, H0647: 1, L0640: 1, L0772: 1, L0764: 1, L0765: 1, L0650: 1, L0375: 1, L0776: 1, L0792: 1, L0666: 1, H0690: 1, H0435: 1, H0670: 1, H0648: 1, S0404: 1, L0755: 1,					148069, 154275, 162200, 162200, 180240, 182138, 239100, 600119, 600119, 600881, 601363, 601687, 601954, 602403

HBHAC29	1057157	857	2 - 553	3032		L0731: 1, L0605: 1 and L0600: 1.			
						S0051: 4, H0441: 3, S0036: 3, L0769: 3, L0438: 3, L0439: 3, H0687: 2, L0665: 2, S0031: 2, S6024: 1, S0029: 1, H0455: 1, H0052: 1, L0638: 1, L0639: 1, S0053: 1 and L0742: 1.	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716
HTPFW87	1057170	858	2 - 2206	3033	Ala-65 to Gly-77, Leu-79 to Lys-85, Gln-95 to Asp-103, Gln-113 to Ser-119, Ser-230 to Gly-235, Lys-358 to Phe-368, Gln-397 to Thr-407, Pro-474 to Val-484, Asn-494 to Asp-505, Glu-513 to Gly-521, Ser-532 to Arg-539, Thr-557 to Thr-562, Pro-566 to Glu-571, Pro-577 to Glu-582.	H0622: 42, S0380: 10, S0368: 3, H0040: 1, H0519: 1 and S0378: 1.			
HISAF60	1057212	859	2 - 988	3034	Arg-8 to Pro-18, Asp-76 to Arg-83, Glu-85 to Thr-94, Arg-139 to Ile-145,	AR039: 13, AR033: 12, AR104: 11, AR053: 10, AR055: 9, AR052: 9, AR089: 9, AR096:			

					Gln-180 to Asp-196, Thr-201 to Ser-213, Lys-230 to Gln-235, Asn-293 to Gly-309, Thr-315 to Phe-321.	8, AR060: 5, AR061: 3 L0731: 12, L0747: 9, H0651: 5, L0759: 5, H0644: 4, H0013: 3, L0748: 3, L0439: 3, L0779: 3, H0575: 2, H0052: 2, H0327: 2, H0050: 2, H0083: 2, L0769: 2, L0662: 2, L0438: 2, H0539: 2, L0743: 2, L0750: 2, L0588: 2, H0716: 1, L0002: 1, L0443: 1, S0001: 1, S0360: 1, H0645: 1, H0411: 1, H0587: 1, H0333: 1, H0486: 1, S0010: 1, S0050: 1, H0051: 1, H0428: 1, H0553: 1, H0032: 1, L0455: 1, S0036: 1, H0038: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, L0770: 1, L0637: 1, L0766: 1, L0649: 1, L0774: 1, L0776: 1, L0655: 1, L0659: 1, L0783: 1, L0529: 1, L5623: 1, L0790: 1,		

						L0791: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, H0696: 1, S3014: 1, L0741: 1, L0744: 1, L0757: 1, L0608: 1 and S0398: 1.		
HRABO80	1057219	860	1521 - 1937	3035	Ala-1 to Ser-7, Gln-108 to Ser-117.	L0743: 4, L0751: 4, H0252: 3, L0659: 3, H0586: 2, H0135: 2, H0038: 2, L0438: 2, H0670: 2, L0779: 2, H0624: 1, S0430: 1, S0222: 1, H0052: 1, L0471: 1, T0010: 1, H0428: 1, H0616: 1, T0067: 1, L0564: 1, H0646: 1, L0662: 1, L0774: 1, L0783: 1, H0144: 1, S0126: 1, H0660: 1, H0651: 1, H0555: 1, L0749: 1, L0750: 1, L0752: 1, L0758: 1 and S0194: 1.		
HADDF30	1057260	861	1 - 1155	3036	Arg-49 to Leu-55, Arg-61 to Cys-69, Arg-87 to Arg-102, Asn-119 to Lys-125, Cys-132 to Met-151, Ser-157 to Glu-164,	L0777: 3, L0803: 2, L0774: 2, L0602: 2, L0596: 2, L0588: 2, S0376: 1, H0431: 1, H0427: 1, H0266: 1, H0328: 1, H0615: 1,	3q24-q28	106165, 117700, 117700, 165500, 169600, 180380,	

					Asn-187 to Glu-210, Glu-235 to Thr-243, Lys-245 to Val-251, His-256 to Ser-268, Ser-277 to Ser-288, Leu-303 to Glu-317, Glu-328 to Gln-341, Ser-350 to Leu-355, Ser-357 to Asn-364.	L0523: 1, L0659: 1, L0809: 1, L0666: 1, H0660: 1, S0378: 1 and L0750: 1.		180380, 180380, 276902, 600700, 601199, 601199, 601199, 601682
HDAAS58	1057272	862	245 - 460	3037	Asn-37 to Arg-45.	AR096: 4, AR089: 2, AR033: 2, AR060: 1, AR053: 1, AR055: 1, AR061: 1, AR104: 1, AR039: 0, AR052: 0 H0052: 4, L0768: 3, L0766: 3, L0438: 3, L0748: 3, L0750: 3, H0657: 2, H0341: 2, H0484: 2, T0042: 2, L0665: 2, H0658: 2, L0743: 2, L0744: 2, L0756: 2, L0777: 2, H0556: 1, H0656: 1, S0420: 1, H0393: 1, L0717: 1, S0222: 1, H0497: 1, H0486: 1, H0013: 1, H0263: 1, N0006: 1, L0579: 1, H0620: 1, L0163: 1, H0594: 1, H0267: 1,		

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HSDZG15	1057307	863	3 - 737	3038	Thr-92 to Gln-106, Val-222 to Val-227, Glu-229 to Asp-245.	H0556: 1, H0455: 1 and H0660: 1.			
HPDVY52	1057393	864	3 - 1391	3039		H0550: 3, L0751: 3, S0356: 2, H0024: 2, H0014: 2, H0059: 2, H0689: 2, H0690: 2, H0661: 1, H0645: 1, H0549: 1, H0052: 1, H0172: 1, H0123: 1, H0081: 1, H0266: 1, H0288: 1, H0553: 1, H0135: 1, H0494: 1, H0646: 1, L0649: 1, H0593: 1, H0682: 1,	20q13.2-q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235

						H0658: 1, H0672: 1, H0555: 1, L0439: 1, L0747: 1, S0276: 1 and H0506: 1.		
HHESW02	1057478	865	2 - 1252	3040	Arg-20 to Gly-28, Glu-41 to Asn-55, Asp-62 to Thr-74, Glu-105 to Thr-118, Ala-144 to Ser-158, Gln-200 to Glu-205, Cys-212 to Gly-217, Pro-231 to Phe-238, Gln-259 to Glu-264, Glu-282 to Tyr-288, Lys-300 to Asn-305, His-351 to Thr-358, Arg-399 to Cys-407.	H0556: 7, H0543: 7, H0265: 3, S0278: 3, S0002: 3, H0445: 3, H0657: 2, H0663: 2, H0580: 2, S0003: 2, H0090: 2, S0144: 2, S0152: 2, S0206: 2, H0542: 2, H0656: 1, H0125: 1, H0351: 1, H0575: 1, S0182: 1, H0023: 1, H0373: 1, H0375: 1, H0591: 1, H0040: 1, H0264: 1, T0041: 1, T0042: 1, S0142: 1, H0521: 1, H0214: 1, H0436: 1, L0750: 1, L0757: 1, S0242: 1, H0423: 1 and H0422: 1.		
HVVBW84	1057561	866	327 - 1625	3041	Cys-24 to Gly-35, Ala-42 to Glu-47, Gln-181 to Asp-188, Val-264 to Pro-270, Asn-289 to Gly-294, Leu-325 to Tyr-330, Gly-353 to Leu-360,	L0751: 19, L0659: 9, H0550: 8, H0545: 6, S0360: 5, H0620: 5, H0309: 4, H0050: 4, H0135: 4, L0754: 4, L0747: 4, L0731: 4, H0170: 3, H0253: 3,		

	Asn-379 to Asp-388.	H0024: 3, H0687: 3, H0124: 3, L0375: 3, H0144: 3, H0672: 3, S0196: 3, H0619: 2, H0586: 2, H0427: 2, H0546: 2, H0622: 2, H0628: 2, H0087: 2, H0100: 2, L0764: 2, L0519: 2, L0664: 2, S0028: 2, L0439: 2, L0758: 2, L0759: 2, H0343: 2, S0192: 2, S0212: 1, H0663: 1, H0662: 1, S0356: 1, H0208: 1, S0300: 1, H0549: 1, S0222: 1, H0392: 1, H0592: 1, H0618: 1, H0196: 1, H0052: 1, H0251: 1, H0232: 1, H0544: 1, H0041: 1, H0188: 1, S0250: 1, L0053: 1, H0031: 1, H0553: 1, H0644: 1, H0674: 1, H0163: 1, H0090: 1, H0477: 1, L0770: 1, L0644: 1, L0648: 1, L0662: 1, L0806: 1, L0776: 1, L0542: 1, L0546: 1, L0783: 1,			

						L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0684: 1, H0651: 1, S0044: 1, L0744: 1, L0584: 1, L0485: 1, L0361: 1, S0194: 1 and H0008: 1.		
HEAAC39	1057603	867	1365 - 1511	3042	Arg-12 to Gln-25, Gly-31 to Gly-38.	AR039: 5, AR053: 5, AR089: 4, AR060: 3, AR061: 3, AR055: 2, AR096: 1, AR033: 1, AR104: 0 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1.		
HSLJC80	1057797	868	143 - 1945	3043	His-12 to Ala-26, Ser-70 to Glu-78, Pro-87 to Pro-94.	AR055: 5, AR060: 5, AR061: 5, AR052: 4, AR033: 4, AR089: 3, AR053: 3, AR096: 2, AR039: 2, AR104: 1 H0550: 9, H0651: 6, S0358: 5, L0659: 5, H0549: 3, H0586: 3, L0662: 3, L0794: 3,		

						L0777: 3, H0575: 2, L0649: 2, L0744: 2, L0756: 2, L0758: 2, H0739: 1, H0716: 1, H0662: 1, H0587: 1, H0706: 1, H0050: 1, H0018: 1, H0200: 1, H0188: 1, H0687: 1, H0644: 1, H0628: 1, H0163: 1, H0100: 1, L0770: 1, L0809: 1, L0788: 1, L0663: 1, H0696: 1, S0406: 1, S0390: 1 and L0749: 1.	AR052: 10, AR096: 6, AR053: 4, AR033: 4, AR089: 4, AR039: 4, AR060: 4, AR104: 3, AR055: 3, AR061: 2 L0659: 11, L0665: 11, L0666: 9, L0752: 9, L0731: 9, H0623: 7, L0663: 7, H0658: 7, L0743: 7, L0750: 7, L0662: 6, L0758: 6, L0759: 6, S0045: 5, S0046: 5, H0412: 5, L0776: 5, L0655: 5, L0779: 5, H0437: 4, H0457: 4, L0747: 4,
				3044			
			332 - 934				
		869					
	1057842						
HEOAD12							

		H0422: 4, L0005: 3, S0376: 3, H0411: 3, S0222: 3, H0266: 3, H0553: 3, H0056: 3, L0667: 3, L0764: 3, L0794: 3, L0803: 3, H0436: 3, L0588: 3, L0599: 3, H0543: 3, H0624: 2, H0657: 2, S0116: 2, H0580: 2, H0013: 2, H0439: 2, L0471: 2, L0483: 2, H0413: 2, S0344: 2, L0598: 2, L0763: 2, L0771: 2, L0775: 2, L0809: 2, S0374: 2, H0670: 2, H0648: 2, S0328: 2, S0330: 2, S0136: 2, H0696: 2, S0404: 2, S0028: 2, L0751: 2, L0745: 2, L0755: 2, H0170: 1, H0171: 1, H0583: 1, H0662: 1, H0402: 1, S0442: 1, S0444: 1, S0360: 1, H0722: 1, S0300: 1, H0351: 1, S0278: 1, H0431: 1, H0592: 1, H0333: 1, H0486: 1, H0635: 1,				

						H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0434: 1, H0251: 1, H0150: 1, H0024: 1, H0594: 1, H0179: 1, H0687: 1, H0119: 1, H0644: 1, H0628: 1, S0036: 1, H0038: 1, H0634: 1, T0067: 1, H0433: 1, H0269: 1, H0100: 1, L0065: 1, L0369: 1, L0770: 1, L0648: 1, L0521: 1, L0766: 1, L0804: 1, L0650: 1, L0651: 1, L0632: 1, L0806: 1, L0517: 1, L0518: 1, L0783: 1, L0647: 1, L0664: 1, H0693: 1, H0547: 1, H0659: 1, S0380: 1, H0710: 1, S0190: 1, H0727: 1, L0754: 1, L0756: 1, L0592: 1, H0667: 1, H0136: 1 and S0276: 1.		
HVVBT41	1057880	870	214 - 1272	3045	Leu-1 to Lys-7, Arg-27 to Glu-33, Ala-43 to Gly-66, Ser-78 to Ser-84, Gly-111 to Val-118,			

					Glu-140 to Lys-145, Lys-163 to Asp-168, Lys-189 to Phe-197, Arg-257 to Leu-264, Gln-285 to Asp-292, Gly-298 to Ala-308, Arg-314 to Glu-323, Gly-329 to Gly-338, Ser-343 to Leu-353.			
HAZAE42	1057915	871	3 - 659	3046	Pro-8 to Gly-18, Pro-57 to Ser-67, Lys-183 to Trp-191.	L0768: 7, L0750: 6, L0783: 5, H0687: 4, H0428: 4, L0770: 4, H0672: 4, H0031: 3, L0767: 3, L0776: 3, L0665: 3, H0539: 3, L0749: 3, L0755: 3, L0731: 3, L0759: 3, L0608: 3, H0333: 2, H0046: 2, H0009: 2, T0006: 2, H0644: 2, H0059: 2, L0386: 2, L0805: 2, L0809: 2, H0547: 2, L0742: 2, L0747: 2, L0779: 2, L0752: 2, H0624: 1, H0686: 1, H0656: 1, L0778: 1, H0662: 1, H0393: 1, H0369: 1, H0550: 1, H0441: 1, H0574: 1, H0632: 1,			

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HPRBN60	1057948	872	3 - 1019	3047	Phe-1 to Cys-8, Ala-10 to Gly-23, Gln-114 to Lys-120, Glu-129 to Phe-135, Ile-155 to Gln-160, Ser-193 to Thr-199, Asp-214 to Gly-226, Asp-236 to Gly-245, Ala-283 to Arg-288, Ala-322 to Asp-331.	L0439: 9, H0550: 6, S0366: 6, S0364: 4, H0644: 3, S0358: 2, H0549: 2, H0645: 1, S0222: 1, H0370: 1, H0050: 1, L0471: 1, S0362: 1, H0039: 1, H0032: 1, H0212: 1, H0379: 1, L0438: 1 and S0044: 1.	4q35		
HOVCZ68	1057958	873	1 - 987	3048	Arg-20 to Arg-26,	H0574: 5, S0126: 4,			

H6EDF71	1057979	874	2 - 1120	3049	Asp-17 to Gly-23, Lys-89 to Asp-94, Lys-129 to Asp-134, Leu-195 to Glu-204.	L0777: 6, L0666: 3, H0648: 3, H0672: 3, L0747: 3, H0685: 2, S0376: 2, H0553: 2, S0440: 2, H0529: 2, L0775: 2, L0788: 2, L0665: 2, S0152: 2,	3q13.1-q13.2	600467, 600882	
					Ser-47 to Thr-59, Val-83 to Cys-91, Asn-94 to Arg-100, Asp-120 to Asn-126, Cys-135 to Glu-140, Gln-146 to Cys-153, Pro-184 to Gln-189, Lys-246 to Cys-252, Cys-259 to Asp-265, Ile-304 to Tyr-319.	L0748: 4, L0777: 4, L0759: 4, T0039: 3, H0428: 3, H0644: 3, S0194: 3, H0393: 2, H0331: 2, H0632: 2, L0021: 2, L0632: 2, L0805: 2, L0776: 2, H0436: 2, L0779: 2, H0171: 1, H0685: 1, H0661: 1, S0132: 1, H0333: 1, H0013: 1, H0546: 1, H0011: 1, H0024: 1, S0250: 1, H0038: 1, H0551: 1, T0067: 1, H0494: 1, S0210: 1, L0761: 1, L0794: 1, L0517: 1, L0790: 1, L0791: 1, L0665: 1, H0144: 1, H0689: 1, S0152: 1, L0747: 1, H0653: 1, S0192: 1, S0276: 1 and S0196: 1.			

						L0599: 2, H0624: 1, H0265: 1, H0222: 1, H0713: 1, H0638: 1, S0354: 1, S0360: 1, S0408: 1, H0370: 1, H0559: 1, H0486: 1, H0581: 1, H0567: 1, H0083: 1, S0003: 1, H0674: 1, H0090: 1, L0475: 1, S0438: 1, S0002: 1, L0646: 1, L0521: 1, L0766: 1, L0651: 1, L0783: 1, L0663: 1, S0374: 1, H0519: 1, H0658: 1, H0696: 1, S0044: 1, S0406: 1, L0750: 1, L0755: 1, H0445: 1, L0366: 1, H0667: 1, S0276: 1, H0543: 1, H0423: 1 and H0506: 1.	17	
HCOOF60	1058001	875	1 - 855	3050	Gly-28 to Ser-36, Trp-38 to Pro-60, Pro-98 to Thr-104, Pro-113 to Tyr-118, Phe-133 to Gly-140, Pro-186 to Leu-192, Glu-239 to Gly-246, Pro-257 to Lys-269, Lys-273 to Lys-279.	L0499: 33, L0493: 25, L0514: 10, H0484: 8, H0620: 6, L0769: 6, S0418: 5, S0356: 5, L0766: 5, L0515: 5, L0747: 5, L0779: 5, H0543: 5, H0559: 4, H0618: 4, H0617: 4, H0087: 4, S0422: 4,			

L0497: 4, L0509: 4, S0376: 3, H0546: 3, H0424: 3, H0551: 3, L0504: 3, H0686: 2, H0545: 2, H0571: 2, H0412: 2, L0507: 2, L0773: 2, L0512: 2, L0783: 2, S0126: 2, L0592: 2, H0136: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0342: 1, H0341: 1, H0483: 1, H0663: 1, H0305: 1, H0638: 1, S0420: 1, S0444: 1, S0408: 1, H0438: 1, H0333: 1, H0257: 1, T0039: 1, T0109: 1, H0013: 1, H0253: 1, H0251: 1, H0544: 1, H0083: 1, H0288: 1, H0622: 1, H0213: 1, H0068: 1, H0163: 1, H0634: 1, H0616: 1, H0100: 1, T0041: 1, H0641: 1, L0763: 1, L0638: 1, L0639: 1, L0646: 1, L0644: 1, L0648: 1, L0662: 1, L0768: 1, L5564: 1,						

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						Glu-20 to Leu-35, Asp-48 to Gly-54.	H0547: 14, H0519: 13, L0803: 12, L0754: 12, H0543: 12, L0794: 10, H0423: 10, H0521: 9, L0748: 9, H0013: 8, L0805: 8, H0046: 7, H0266: 7, S0022: 7, L0439: 7, L0758: 7, L0599: 7, L0471: 6, L0666: 6, L0663: 6, L0731: 6, H0553: 5, H0040: 5, S0422: 5, S0002: 5, H0529: 5, L0659: 5, H0435: 5, S0152: 5, L0750: 5, L0752: 5, L0596: 5,
					3051			
				3522 - 1090				
			876					
		1058059						
	HVVBH81							

		L0591: 5, L0608: 5, H0170: 4, S0358: 4, S0360: 4, L0717: 4, S0222: 4, H0486: 4, H0318: 4, H0038: 4, H0494: 4, L0770: 4, L0761: 4, L0766: 4, L0804: 4, L0774: 4, L0809: 4, L0519: 4, S0406: 4, L0747: 4, H0445: 4, L0588: 4, H0717: 3, H0657: 3, S0212: 3, H0661: 3, H0580: 3, H0592: 3, H0587: 3, H0083: 3, H0428: 3, H0674: 3, H0560: 3, L0598: 3, L0369: 3, L0769: 3, L0646: 3, L0649: 3, L0776: 3, L0527: 3, L0790: 3, L0665: 3, H0144: 3, H0520: 3, S0380: 3, L0602: 3, H0522: 3, S0028: 3, L0740: 3, L0749: 3, L0756: 3, H0136: 3, H0506: 3, H0624: 2, H0171: 2, S6024: 2, H0583: 2, H0381: 2, H0662: 2, S0418: 2,			

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	S0318: 1, S0316: 1, H0687: 1, S0003: 1, H0328: 1, H0039: 1, H0622: 1, L0194: 1, H0030: 1, H0031: 1, L0142: 1, H0617: 1, H0169: 1, L0455: 1, H0124: 1, H0316: 1, H0090: 1, H0591: 1, H0551: 1, H0488: 1, H0413: 1, T0004: 1, T0041: 1, T0042: 1, L0475: 1, H0625: 1, S0370: 1, S0464: 1, S0440: 1, H0509: 1, S0150: 1, H0130: 1, S0208: 1, UNKWN: 1, L0520: 1, L0763: 1, L0631: 1, L0637: 1, L5575: 1, L0641: 1, L0771: 1, L0773: 1, L0648: 1, L0521: 1, L0662: 1, L0767: 1, L0775: 1, L0378: 1, L0806: 1, L0606: 1, L0661: 1, L0657: 1, L0542: 1, L0384: 1, L0528: 1, L0647: 1, L0367: 1, L0787: 1, L0789: 1, L0532: 1,				

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HSPTJ51	1058172	877	3 - 1004	3052	Gly-6 to Gly-15, Pro-17 to Leu-22, Trp-25 to Leu-70, Asp-72 to Val-86, Asp-151 to Asn-170, Ala-183 to Gln-198, Pro-221 to Pro-227, Pro-236 to Gly-244, Pro-272 to Gly-281, Pro-304 to Asp-318.	H0683: 39, L0731: 9, S0422: 7, L0748: 7, L0747: 6, H0013: 5, L0794: 4, L0805: 4, L0754: 4, L0779: 4, L0759: 4, H0650: 3, H0318: 3, H0046: 3, L0662: 3, S0328: 3, L0439: 3, L0740: 3, L0749: 3, L0777: 3, L0758: 3, L0593: 3, H0170: 2, H0341: 2, H0662: 2, S0442: 2, S0046: 2, L0717: 2,	3p23-p21	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373

		H0169: 2, H0090: 2, H0413: 2, S0002: 2, L0372: 2, L0363: 2, L0768: 2, L0766: 2, S0374: 2, L0438: 2, H0547: 2, L0602: 2, L0743: 2, L0750: 2, L0780: 2, H0423: 2, H0422: 2, S0424: 2, H0265: 1, S0212: 1, S0444: 1, S0360: 1, H0733: 1, H0351: 1, H0270: 1, L0586: 1, H0635: 1, H0097: 1, H0421: 1, H0546: 1, H0399: 1, H0266: 1, H0615: 1, H0428: 1, H0553: 1, L0055: 1, H0673: 1, H0124: 1, H0708: 1, H0591: 1, H0040: 1, H0551: 1, H0488: 1, H0623: 1, H0561: 1, S0306: 1, S0438: 1, H0647: 1, S0344: 1, H0529: 1, L0506: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0646: 1, L0803: 1, L0375: 1, L0651: 1,			

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HOPKC80	1058174	878	240 - 980	3053	Pro-1 to Ser-6, Pro-25 to Cys-31, Arg-142 to Lys-150, Pro-223 to Arg-232.	S0408: 20, L0751: 11, S0358: 8, S0442: 5, S0444: 5, L0775: 5, L0776: 5, S0440: 4, L0659: 4, L0666: 4, L0755: 4, L0596: 4, S0356: 3, S0376: 3, L0771: 3, L0768: 3, L0774: 3, L0743: 3, L0748: 3, H0550: 2, L0373: 2, L0372: 2, L0665: 2, S0374: 2, H0684: 2, H0648: 2,	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777

					H0672: 2, S0392: 2, L0750: 2, L0752: 2, L0599: 2, H0295: 1, S0360: 1, S0410: 1, S0132: 1, H0549: 1, H0574: 1, L0021: 1, H0590: 1, H0085: 1, H0204: 1, H0150: 1, H0039: 1, H0617: 1, H0130: 1, L0764: 1, L0773: 1, L0648: 1, L0653: 1, L0657: 1, L0783: 1, L0383: 1, L0519: 1, L0791: 1, L0792: 1, L0663: 1, H0435: 1, H0659: 1, H0670: 1, H0696: 1, S0404: 1, S0406: 1, L0777: 1, L0759: 1 and S0434: 1.		
HOCPT58	1058250	879	1 - 765	3054	Ala-3 to Val-8, Ser-97 to Leu-104, Asp-106 to Thr-113, Ala-124 to Ser-129, Pro-136 to Gly-152, Pro-156 to Leu-167, His-176 to His-182, Thr-188 to Ser-194, Pro-200 to Tyr-205, Arg-208 to Glu-214,	H0618: 10, L0809: 7, H0713: 3, H0619: 3, H0052: 3, S0126: 3, L0748: 3, L0754: 3, L0745: 3, L0750: 3, H0716: 2, H0550: 2, H0392: 2, H0253: 2, H0687: 2, H0040: 2, H0551: 2, H0264: 2, L0800: 2, L0764: 2,		

	Arg-239 to Gly-245.					L0774: 2, H0660: 2, S0378: 2, S3014: 2, L0751: 2, L0749: 2, L0779: 2, L0758: 2, L0759: 2, H0295: 1, H0583: 1, S0212: 1, H0484: 1, H0255: 1, S0442: 1, S0358: 1, S0444: 1, S0360: 1, H0549: 1, H0333: 1, L0622: 1, H0486: 1, T0060: 1, H0427: 1, L0021: 1, H0194: 1, H0309: 1, H0546: 1, H0050: 1, L0471: 1, H0051: 1, S0388: 1, H0399: 1, H0375: 1, H0252: 1, H0428: 1, H0039: 1, H0553: 1, H0163: 1, H0616: 1, H0087: 1, H0494: 1, H0714: 1, S0438: 1, S0440: 1, H0633: 1, H0646: 1, S0144: 1, S0002: 1, S0426: 1, L0639: 1, L5566: 1, L0772: 1, L0648: 1, L0386: 1, L0650: 1, L0653: 1, L0655: 1, L0657: 1, L0659: 1,

HPCTP25	1058287	880	3 - 1553	3055	Ser-89 to Met-94, Val-331 to Lys-339, Leu-344 to Met-350, Glu-386 to Tyr-394, Phe-480 to Gly-493.	H0707: 17, L0777: 14, L0803: 7, L0748: 6, S0002: 5, L0789: 5, S0126: 5, L0747: 5, L0750: 5, H0046: 4, S0412: 4, H0574: 3, S0010: 3, L0770: 3, L0666: 3, H0354: 2, H0510: 2, H0266: 2, H0644: 2, H0673: 2, H0494: 2, S0344: 2, S0426: 2, L0766: 2, L0776: 2, L0809: 2, H0659: 2, S0328: 2, H0539: 2, S0027: 2, S0028: 2, L0439: 2, L0779: 2, L0752: 2, L0731: 2, L0581: 2, L0601: 2, H0170: 1, S0342: 1, H0713: 1, L0789: 1, L0793: 1, L0664: 1, H0144: 1, H0593: 1, H0682: 1, H0670: 1, H0651: 1, S0330: 1, S0152: 1, H0521: 1, S0037: 1, S0027: 1, S0206: 1, L0743: 1, L0740: 1, L0747: 1, L0756: 1, H0595: 1 and H0653: 1.	1q22-q23	104770, 107300, 107670, 110700, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 159440, 159440, 159440, 173610, 176310, 186780, 191030, 191315,

227400, 227400, 600923, 601412, 601652, 602491		H0717: 1, S0114: 1, H0583: 1, S0212: 1, S0282: 1, H0661: 1, S0420: 1, S0358: 1, S0444: 1, S0408: 1, H0722: 1, S0046: 1, S0476: 1, H0431: 1, H0592: 1, H0587: 1, S0414: 1, T0114: 1, S0280: 1, H0156: 1, L0021: 1, L0105: 1, H0052: 1, H0050: 1, H0024: 1, H0014: 1, S0051: 1, H0083: 1, S6028: 1, H0292: 1, S0003: 1, H0328: 1, H0428: 1, H0032: 1, H0598: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0616: 1, S0038: 1, T0041: 1, T0042: 1, H0625: 1, H0561: 1, H0714: 1, S0438: 1, H0529: 1, L0769: 1, L0638: 1, L0667: 1, L0646: 1, L0764: 1, L0765: 1, L0662: 1, L0794: 1, L0649: 1, L0774: 1, L0805: 1, L0379: 1,				

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HODKM52	1058305	881	13 - 999	3056	Arg-1 to Val-6.	H0059: 6, H0370: 5, L0646: 2, L0754: 2, H0664: 1, S0376: 1, H0156: 1, H0615: 1, H0688: 1, H0030: 1, H0494: 1, L0764: 1, L0662: 1, L0664: 1, H0682: 1 and H0666: 1.		
HCONB89	1058316	882	1 - 1302	3057			8p22-p21.3	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629

HSABJ44	1058413	883	11 - 925	3058	Gly-1 to Lys-10, Glu-29 to His-36, Gly-43 to Asn-63, Ala-74 to Leu-84, Leu-132 to Asn-142, Pro-189 to Pro-194, Asp-196 to Ser-209, Pro-252 to Gly-268, Thr-271 to Lys-278, Pro-292 to Gln-300.	L0777: 9, L0751: 8, H0046: 5, H0550: 4, L0665: 4, H0521: 4, L0750: 4, H0623: 3, H0435: 3, H0658: 3, S0436: 3, S0212: 2, H0580: 2, H0619: 2, T0039: 2, H0427: 2, H0266: 2, S0438: 2, L0772: 2, L0659: 2, L0666: 2, L0663: 2, S0374: 2, S0152: 2, H0696: 2, H0555: 2, L0749: 2, L0731: 2, L0758: 2, L0596: 2, L0599: 2, S0192: 2, H0685: 1, S0040: 1, H0717: 1, S0116: 1, H0483: 1, H0255: 1, H0661: 1, H0663: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0728: 1, L0717: 1, H0586: 1, H0618: 1, H0318: 1, H0263: 1, H0544: 1, H0510: 1, H0290: 1, S0368: 1, H0424: 1, H0553: 1, H0606: 1, H0032: 1, H0316: 1, H0634: 1,	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096

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HBPND88	1058432	884	1 - 1128	3059	Ala-2 to Gly-8, Tyr-12 to Pro-26, Gly-102 to Asn-107, Ala-113 to Asp-122, Arg-130 to Val-135, Glu-142 to Lys-150, Asn-189 to Ala-195, Ala-221 to His-228, Gln-248 to Ser-260, Ser-272 to Gly-283, Leu-321 to Glu-329, Cys-336 to Gly-344,	L0748: 15, L0599: 15, L0731: 9, L0751: 7, L0750: 6, S0360: 5, L0659: 5, L0754: 5, L0755: 5, L0601: 5, H0295: 4, L0655: 4, L0663: 4, L0664: 4, H0670: 4, L0744: 4, L0747: 4, L0757: 4, T0049: 3, S0474: 3, H0124: 3, L0763: 3, L0662: 3, L0768: 3,	10q22-q27	

Ala-358 to Gly-367.	L0806: 3, L0509: 3, L0776: 3, L0809: 3, L0666: 3, L0665: 3, S0328: 3, H0445: 3, L0596: 3, S0026: 3, L0600: 3, S0358: 2, S0376: 2, S0444: 2, H0083: 2, S0210: 2, L0761: 2, L0372: 2, L0764: 2, L0774: 2, L0654: 2, L0382: 2, H0435: 2, H0648: 2, L0759: 2, H0444: 2, L0608: 2, H0685: 1, L0785: 1, H0341: 1, S0212: 1, H0255: 1, H0661: 1, H0664: 1, H0662: 1, S0418: 1, S0420: 1, S0442: 1, S0408: 1, S0410: 1, H0393: 1, H0431: 1, H0392: 1, H0331: 1, L0622: 1, T0114: 1, T0109: 1, H0427: 1, L0021: 1, T0082: 1, H0530: 1, H0546: 1, H0545: 1, S0051: 1, H0030: 1, H0031: 1, H0032: 1, H0169: 1, H0674: 1, H0212: 1,					

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H6EE005	1058438	885	67 - 1527	3060	Arg-29 to Ser-35, Ser-79 to Gly-91, Pro-105 to Arg-120, Thr-168 to Glu-175, Phe-187 to Ala-200, Arg-272 to Lys-282,	L0748: 11, L0747: 9, L0749: 7, L0439: 6, L0599: 5, L0779: 4, L0757: 4, L0758: 4, L0662: 3, L0766: 3, L0774: 3, L0659: 3,	10	

Arg-325 to Asp-330, L0751: 3, L0750: 3, Arg-332 to Phe-338, S0358: 2, H0431: 2, Arg-358 to Lys-368, H0622: 2, L0637: 2, Cys-433 to Asn-441, L0375: 2, L0776: 2, Leu-456 to Asp-461. L0666: 2, H0648: 2, H0672: 2, S3014: 2, L0741: 2, L0740: 2, L0731: 2, T0002: 1, S0040: 1, S6024: 1, S0116: 1, H0664: 1, S0418: 1, S0360: 1, S0046: 1, L0717: 1, S6016: 1, H0331: 1, H0632: 1, H0559: 1, H0486: 1, H0013: 1, S0010: 1, H0318: 1, S0049: 1, H0434: 1, L0041: 1, L0471: 1, S0362: 1, H0051: 1, S0388: 1, S6028: 1, H0266: 1, H0687: 1, H0615: 1, S0364: 1, H0551: 1, H0272: 1, S0038: 1, H0100: 1, L0351: 1, H0560: 1, S0438: 1, H0509: 1, H0652: 1, S0142: 1, S0344: 1, S0426: 1, L0769: 1, L0638: 1, L0667: 1, L0373: 1,						

HFIVR61	1058451	886	157 - 777	3061	Pro-27 to Lys-32, Pro-37 to Ser-44, Glu-46 to Gln-51, Arg-63 to Asn-71, Gln-125 to Ala-135, Gln-150 to Asn-155.	L0372: 1, L0764: 1, L0771: 1, L0648: 1, L0521: 1, L0363: 1, L0803: 1, L0650: 1, L0775: 1, L0788: 1, L0664: 1, H0660: 1, L0743: 1, L0753: 1, L0480: 1, L0595: 1 and S0460: 1.	AR096: 10, AR089: 8, AR039: 7, AR061: 7, AR053: 6, AR052: 5, AR033: 5, AR060: 3, AR104: 3, AR055: 3 S0242: 271, S0196: 77, H0551: 32, S0003: 13, H0634: 11, H0635: 10, H0250: 7, H0069: 7, L0757: 6, H0486: 5, H0623: 5, H0386: 4, S0418: 2, H0411: 2, S0214: 2, H0628: 2, L0649: 2, L0803: 2, L0789: 2, H0265: 1, H0556: 1, H0140: 1, S0040: 1, S0298: 1, H0638: 1, S0376: 1, H0637: 1, S0046: 1, H0431: 1, H0461: 1, L0021: 1, H0318: 1,	7p21	153880, 601622, 601649

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HVVBX28	1058458	887	2 - 493	3062				

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HVVBI38	1058475	888	258 - 2291	3063	Pro-27 to Lys-35.				
HUKEJ46	1058539	889	242 - 1165	3064		AR089: 2, AR096: 2, AR060: 1, AR053: 1, AR061: 1, AR033: 0, AR055: 0, AR104: 0, AR039: 0 S0358: 5, H0596: 2, H0059: 2, S0354: 1, H0263: 1, L0738: 1, L0639: 1, L0764: 1, L0767: 1, L0768: 1, L0659: 1, S0374: 1, H0660: 1, H0672: 1, S0380: 1 and L0731: 1.			
HDTFT47	1058588	890	2 - 274	3065	Trp-1 to Glu-9, Thr-29 to Val-35, Arg-73 to Thr-79.	L0655: 10, L0664: 9, L0751: 8, H0521: 7, S0360: 5, H0486: 5, L0777: 4, H0657: 3, H0638: 3, H0087: 3, L0763: 3, L0743: 3, L0748: 3, L0599: 3, H0662: 2, H0637: 2, H0581: 2, H0090: 2, L0768: 2, L0651: 2, L0653: 2, L0659: 2,	6p21.3		106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261,

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HSSFS71	1058596	891	2 - 499	3066	Glu-42 to Leu-48, His-56 to Cys-62, Ala-107 to Pro-119.	H0555: 1, L0741: 1, L0744: 1, L0731: 1, H0595: 1 and H0543: 1.	AR055: 18, AR033: 9, AR096: 5, AR104: 5, AR089: 4, AR060: 4, AR052: 2, AR039: 2, AR061: 2, AR053: 1 H0617: 22, H0424: 13, L0439: 12, H0618: 9, H0658: 9, L0751: 9, H0265: 8, L0666: 7, S0126: 7, S0046: 6, S0222: 6, H0031: 6, L0803: 6, L0731: 6, H0009: 5, L0769: 5, L0758: 5, S0420: 4, H0370: 4, L0163: 4, H0553: 4, H0135: 4, L0805: 4, L0657: 4, L0809: 4, L0779: 4, H0483: 3, H0150: 3, H0266: 3, L0663: 3, H0670: 3, L0755: 3, H0717: 2, L0415: 2, H0661: 2, S0444: 2, S0045: 2, H0549: 2, H0486: 2, H0156: 2, H0599: 2, S0049: 2, H0373: 2, T0010: 2,	14q32.3	

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H0181: 2, H0412: 2,
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L0640: 2, L0800: 2,
L0648: 2, L0662: 2,
L0794: 2, L0789: 2,
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S0040: 1, H0713: 1,
H0716: 1, S6024: 1,
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S0358: 1, S0468: 1,
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H0024: 1, H0014: 1,

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HSDJH63	1058612	892	153 - 1358	3067	Thr-17 to Lys-23, Lys-93 to Arg-98.	AR039: 28, AR053: 20, AR055: 19, AR033: 17, AR052: 16, AR089: 15, AR104: 12, AR061: 12, AR096: 11, AR060: 11 H0615: 2, L0766: 2, S0114: 1, H0650: 1,	

						H0657: 1, L0791: 1, H0689: 1, S0152: 1, S0260: 1 and H0445: 1.		
HAHGD24	1058622	893	2 - 1027	3068	Pro-17 to Arg-25, Ala-61 to Trp-72, Gln-96 to Pro-111, Gln-210 to Pro-215.	L0666: 3, L0657: 2, H0689: 2, H0555: 2, L0751: 2, S0001: 1, S0360: 1, H0675: 1, S0132: 1, H0549: 1, S0222: 1, H0333: 1, T0114: 1, H0599: 1, L0022: 1, H0594: 1, H0688: 1, S0364: 1, H0100: 1, H0561: 1, S0382: 1, L0637: 1, L0761: 1, L0649: 1, L0788: 1, L0789: 1, L0665: 1, H0547: 1, H0690: 1, H0658: 1, H0660: 1, H0672: 1, H0539: 1, H0696: 1, L0743: 1, L0754: 1 and L0780: 1.		
HTAEV85	1058723	894	426 - 238	3069		H0052: 20, H0264: 5, H0194: 4, T0010: 4, H0435: 4, H0436: 4, H0543: 4, S0222: 3, L0439: 3, H0069: 2, H0618: 2, H0581: 2, H0012: 2, H0617: 2, H0087: 2, S0038: 2,		

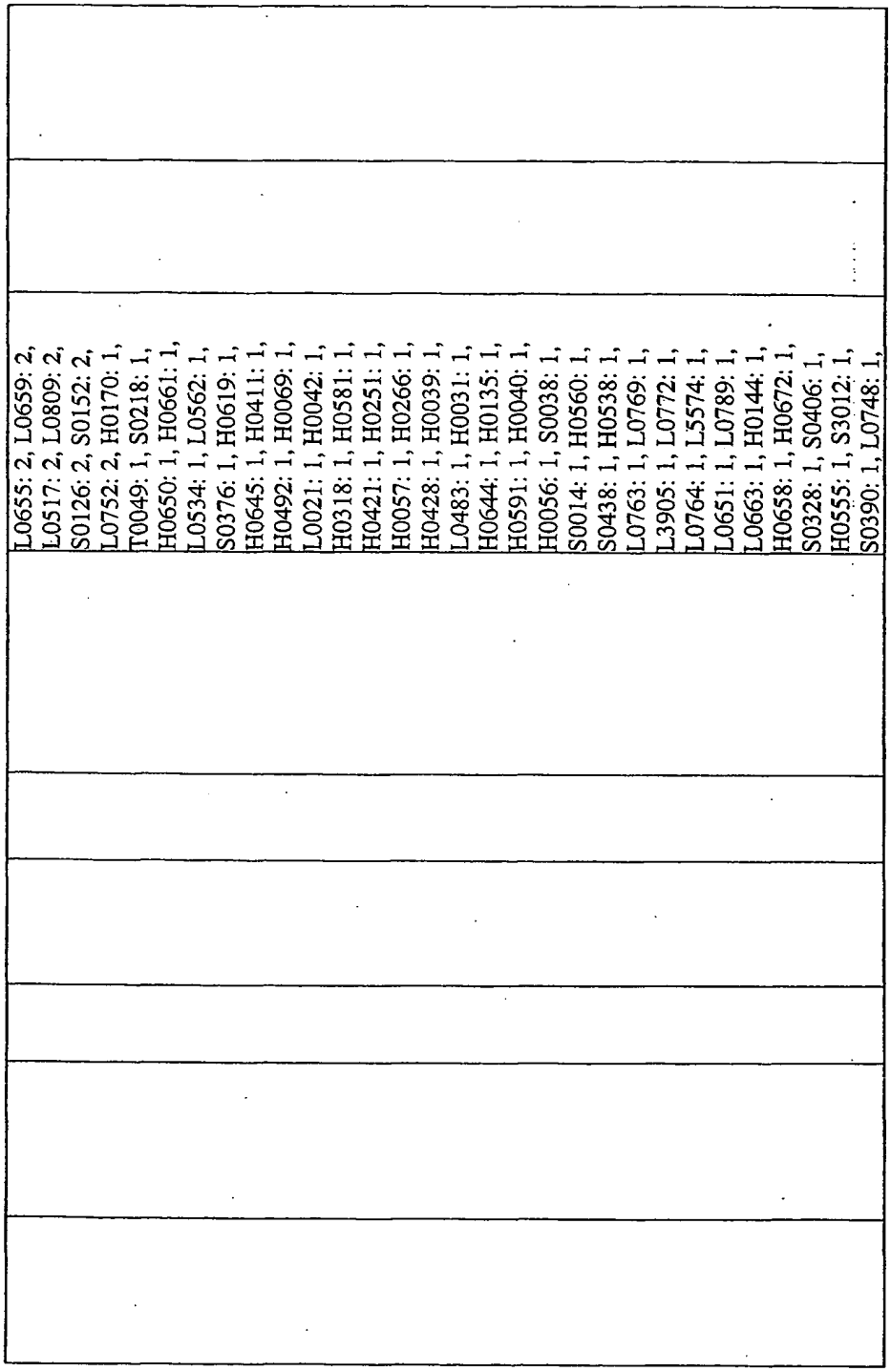
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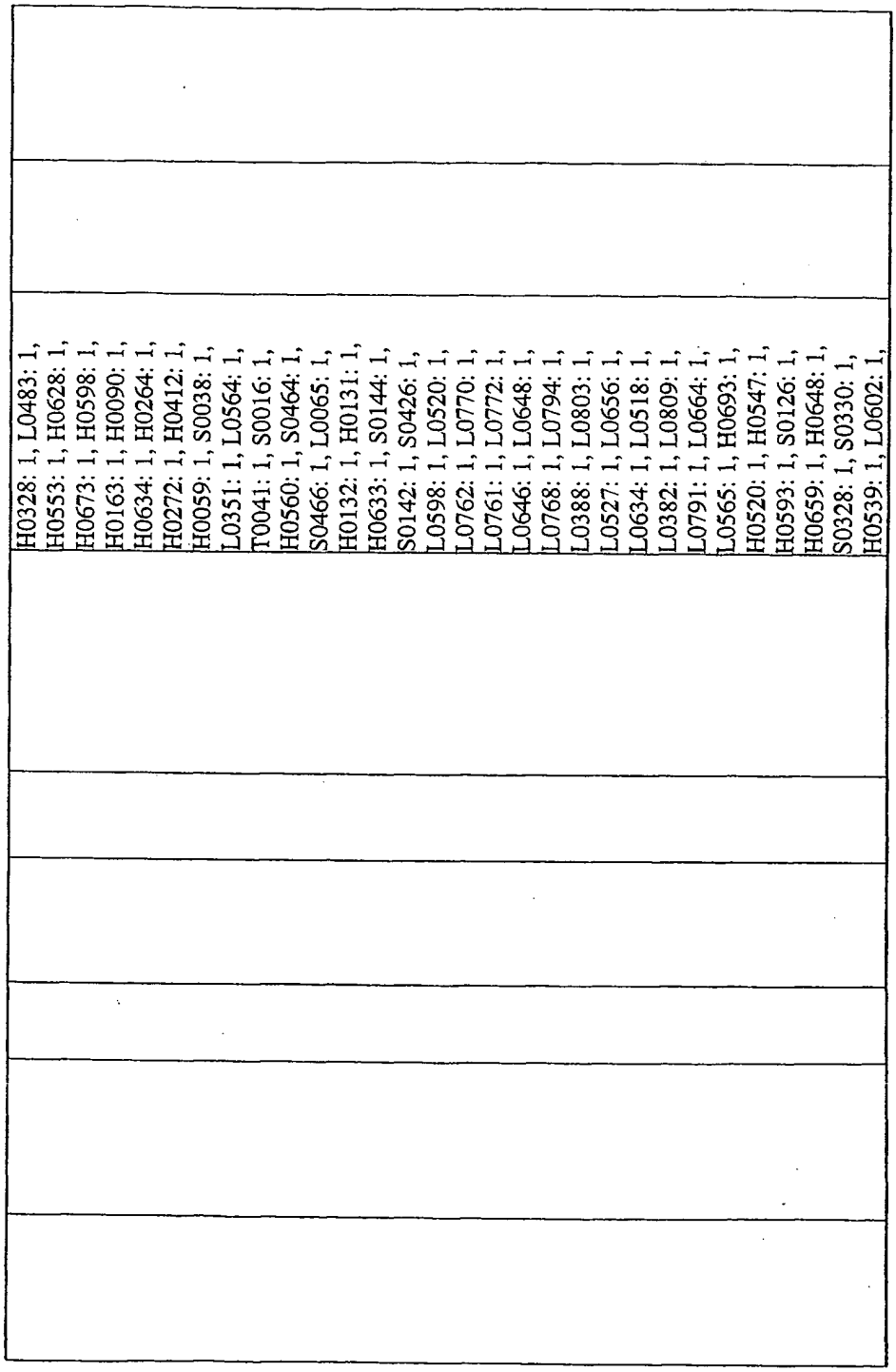
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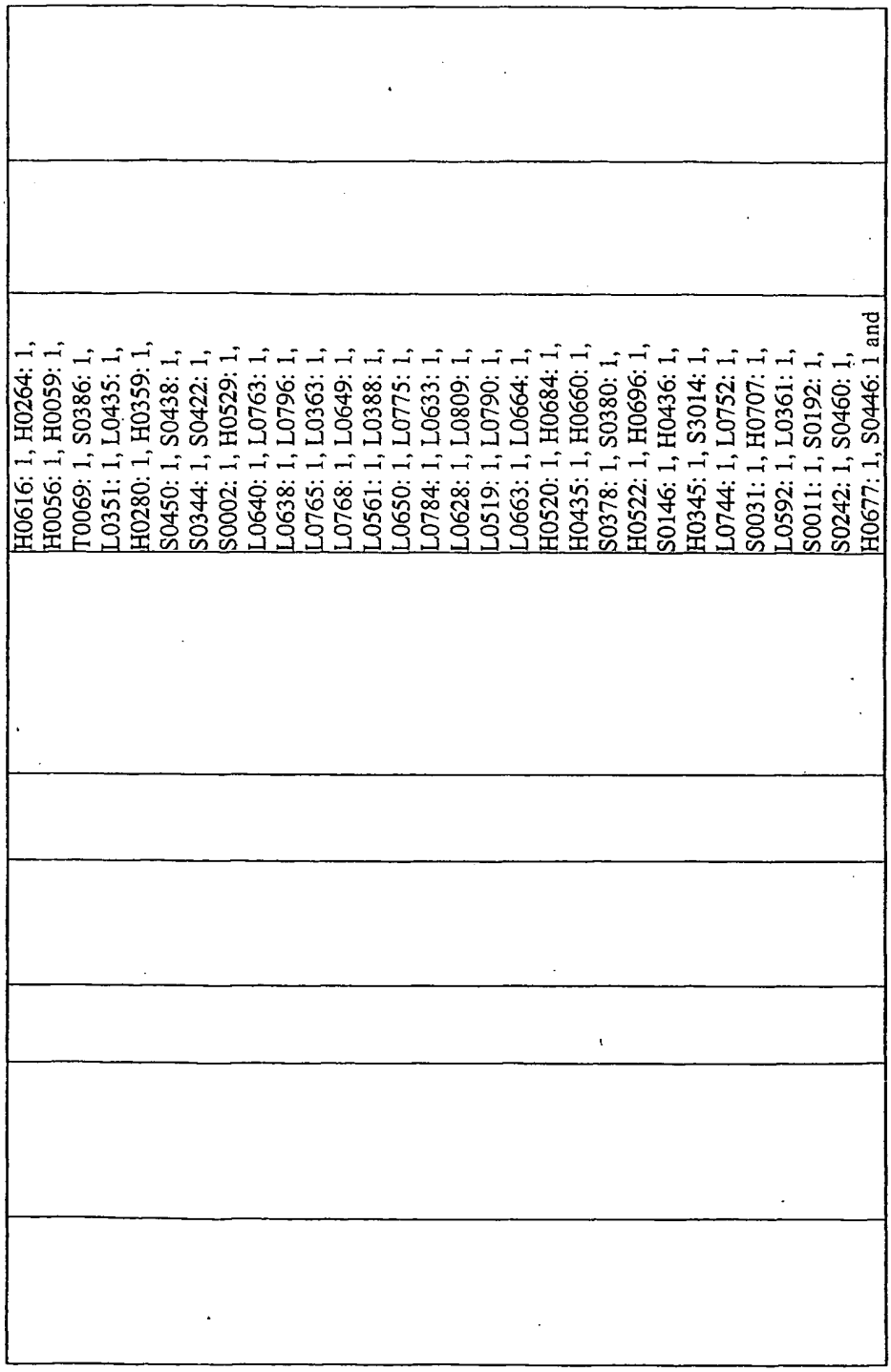
				Arg-148 to Tyr-155, Ser-158 to Gly-165, Ala-168 to Lys-178, His-215 to Ile-221, Ser-236 to Tyr-241, Ala-278 to Gly-287, Gly-294 to Asp-299, Glu-306 to Ser-313, Ser-374 to Arg-382, Ala-411 to Pro-416, Cys-423 to Arg-430, Thr-452 to Cys-462, Glu-479 to Glu-499, Gly-501 to Gly-507.	L0438: 4, H0264: 3, H0265: 2, H0261: 2, S0222: 2, T0010: 2, L0770: 2, L0764: 2, L0648: 2, H0547: 2, H0682: 2, H0672: 2, L0748: 2, L0756: 2, S0031: 2, H0423: 2, H0556: 1, H0295: 1, S0134: 1, S0282: 1, H0255: 1, H0661: 1, H0663: 1, S0356: 1, S0360: 1, H0619: 1, L0717: 1, S6014: 1, H0415: 1, H0643: 1, H0486: 1, H0156: 1, H0618: 1, S0010: 1, H0581: 1, S0049: 1, H0457: 1, H0050: 1, H0012: 1, H0320: 1, H0354: 1, H0271: 1, L0140: 1, H0063: 1, H0272: 1, H0494: 1, H0646: 1, L0761: 1, L0644: 1, L0771: 1, L0774: 1, L0788: 1, H0698: 1, H0593: 1, H0658: 1, H0648: 1, S0328: 1, S0330: 1, H0518: 1, L0744: 1,

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HTJMV05	1059692	910	2 - 685	3085		H0083: 17, H0556: 14, H0265: 7, L0794: 6, H0271: 5, H0543: 5, L0766: 4, L0809: 4, H0436: 3, H0635: 2, H0150: 2, S0114: 1, H0650: 1, H0645: 1, S0222: 1, H0438: 1, H0594: 1, H0416: 1, H0615: 1, H0033: 1, H0087: 1, H0488: 1, S0440: 1, S0142: 1, L0764: 1, L0803: 1, L0655: 1, L0657: 1, L0656: 1, L0659: 1, L0783: 1, L0790: 1, L0663: 1, L0665: 1, S0216: 1, H0670: 1, L0758: 1, H0595: 1, H0542: 1, H0423: 1 and H0422: 1.		
HOOIL70	1059710	911	134 - 1996	3086	Pro-19 to Ala-24, Pro-57 to Asp-64, Pro-125 to His-138, Ser-177 to Ala-182, Asn-257 to Ala-266, Glu-275 to Asn-284,	L0749: 6, L0761: 4, H0657: 3, S0142: 3, L0766: 3, L0655: 3, L0777: 3, L0599: 3, H0556: 2, S0358: 2, H0457: 2, L0769: 2,	12p13	103950, 120580, 131440, 139130, 142680, 176260,

					Arg-288 to Lys-303, Pro-340 to Lys-345, Arg-378 to Cys-387, His-411 to Arg-419, Ile-462 to Ser-468, Gln-553 to Ile-565, Lys-577 to Val-589, His-594 to Lys-621.	L0794: 2, L0499: 2, L0653: 2, L0776: 2, L0659: 2, H0648: 2, H0521: 2, H0555: 2, L0747: 2, L0750: 2, H0445: 2, H0650: 1, H0656: 1, H0255: 1, S0356: 1, S0140: 1, L0717: 1, S0278: 1, S0280: 1, H0274: 1, H0050: 1, H0015: 1, H0083: 1, H0688: 1, H0606: 1, H0124: 1, T0067: 1, S0002: 1, S0426: 1, L0763: 1, L0772: 1, L0771: 1, L0784: 1, L0629: 1, L0382: 1, L0663: 1, L0665: 1, H0689: 1, H0672: 1, H0522: 1, H0436: 1, L0780: 1, L0752: 1, L0731: 1 and H0422: 1.		190450, 200990, 216950, 600228, 600414, 600618, 602096
HUNAE87	1059743	912	146 - 955	3087	Asn-1 to Asp-6, Pro-16 to Gly-22, Tyr-28 to Glu-34, Thr-44 to Val-57, Arg-96 to Pro-106, Leu-118 to His-123, Pro-125 to Ser-146,	L0748: 19, L0754: 15, H0046: 13, L0751: 10, H0013: 8, S0152: 8, H0623: 7, H0644: 6, L0662: 6, L0666: 6, L0438: 6, L0740: 6, L0747: 6, S0358: 5,	11q11	106100

	S0476: 5, H0575: 5, H0622: 5, L0659: 5, L0758: 5, H0645: 4, S0440: 4, L0770: 4, L0806: 4, L0776: 4, L0439: 4, L0750: 4, L0755: 4, L0731: 4, S0442: 3, S0022: 3, H0032: 3, H0591: 3, L0769: 3, L0665: 3, H0144: 3, H0547: 3, H0539: 3, S0390: 3, S0028: 3, S0206: 3, L0759: 3, L0591: 3, H0624: 2, H0686: 2, S0212: 2, S0282: 2, H0662: 2, S0444: 2, H0637: 2, S0045: 2, H0619: 2, H0351: 2, H0586: 2, H0486: 2, H0042: 2, H0052: 2, N0006: 2, H0015: 2, H0039: 2, H0553: 2, H0135: 2, H0488: 2, H0646: 2, H0652: 2, L0369: 2, L0627: 2, L0764: 2, L0766: 2, L0774: 2, L0653: 2, L0565: 2, H0519: 2, H0593: 2, L0742: 2,	Thr-151 to Gln-178, Glu-199 to Leu-210, Asp-217 to Tyr-237, Val-245 to Tyr-251.				

	L0743: 2, L0749: 2, S0434: 2, S0436: 2, L0596: 2, L0589: 2, H0171: 1, H0713: 1, H0717: 1, H0716: 1, H0583: 1, H0650: 1, H0657: 1, S0116: 1, S0001: 1, H0661: 1, H0663: 1, H0638: 1, S0354: 1, H0722: 1, S0132: 1, L0717: 1, H0443: 1, S0222: 1, H0431: 1, H0609: 1, H0587: 1, H0331: 1, H0632: 1, T0039: 1, T0060: 1, H0069: 1, H0635: 1, H0156: 1, H0599: 1, H0118: 1, T0082: 1, S0010: 1, S0346: 1, T0048: 1, H0374: 1, H0194: 1, H0309: 1, H0545: 1, H0563: 1, L0471: 1, H0350: 1, H0014: 1, H0051: 1, H0266: 1, H0687: 1, S0003: 1, H0688: 1, T0023: 1, L0483: 1, H0031: 1, L0055: 1, H0674: 1, S0036: 1, H0038: 1,				


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H0056: 1, H0059: 1,
T0069: 1, S0386: 1,
L0351: 1, L0435: 1,
H0280: 1, H0359: 1,
S0450: 1, S0438: 1,
S0344: 1, S0422: 1,
S0002: 1, H0529: 1,
L0640: 1, L0763: 1,
L0638: 1, L0796: 1,
L0765: 1, L0363: 1,
L0768: 1, L0649: 1,
L0561: 1, L0388: 1,
L0650: 1, L0775: 1,
L0784: 1, L0633: 1,
L0628: 1, L0809: 1,
L0519: 1, L0790: 1,
L0663: 1, L0664: 1,
H0520: 1, H0684: 1,
H0435: 1, H0660: 1,
S0378: 1, S0380: 1,
H0522: 1, H0696: 1,
S0146: 1, H0436: 1,
H0345: 1, S3014: 1,
L0744: 1, L0752: 1,
S0031: 1, H0707: 1,
L0592: 1, L0361: 1,
S0011: 1, S0192: 1,
S0242: 1, S0460: 1,
H0677: 1, S0446: 1 and

HTPHO01	1059764	913	2 - 1081	3088	Pro-81 to Lys-89, Cys-91 to Leu-100, Asp-103 to Ile-110, Pro-179 to Pro-184, Arg-194 to Met-199, Pro-203 to Arg-213, Pro-249 to Ala-262, Ser-274 to Glu-279, Asp-301 to Trp-309, Pro-335 to Ser-343.	H0008: 1. AR096: 5, AR055: 3, AR089: 3, AR061: 3, AR053: 2, AR033: 2, AR060: 2, AR039: 1, AR104: 1, AR052: 0 H0599: 25, L0731: 19, L0750: 14, L0754: 13, L0766: 8, L0776: 8, L0752: 8, L0757: 8, L0747: 6, L0744: 5, L0769: 4, L0779: 4, L0777: 4, S0420: 3, L0770: 3, L0755: 3, L0758: 3, L0471: 2, L0771: 2, L0775: 2, L0806: 2, L0659: 2, S0126: 2, H0670: 2, L0743: 2, L0759: 2, L0604: 2, H0624: 1, H0685: 1, H0650: 1, H0484: 1, H0483: 1, H0661: 1, S0358: 1, S0360: 1, S0046: 1, H0411: 1, H0632: 1, H0427: 1, S0280: 1, H0097: 1, H0004: 1, S0049: 1, H0024: 1, H0028: 1, H0022: 1, L0142: 1, H0708: 1,	3q13.3-q21	106165, 117700, 117700, 126451, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682

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HDPWK69	1059784	914	206 - 496	3089		S0001: 1, H0125: 1, H0580: 1, H0581: 1, H0457: 1, H0428: 1, L0627: 1, H0521: 1 and L0749: 1.	20q13.2-q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235
HPCOK03	1059849	915	8 - 1267	3090	Asp-19 to Ile-26, Lys-86 to Leu-96, Pro-108 to Leu-119, Ser-121 to Gln-144, Ser-243 to Ala-251, Pro-299 to Thr-305, Asn-349 to Ser-359, Leu-381 to Pro-389, Asn-403 to Ser-420.	L0748: 19, L0758: 6, L0794: 5, L0766: 5, L0749: 4, H0038: 3, H0494: 3, L0771: 3, H0520: 3, H0288: 2, H0551: 2, L0665: 2, L0438: 2, H0547: 2, H0659: 2, L0591: 2, L0595: 2, H0177: 1, S0418: 1, S0046: 1, H0393: 1, L0717: 1, H0370: 1, T0039: 1, T0114: 1, H0318: 1,			

					T0110: 1, H0553: 1, H0412: 1, H0413: 1, H0623: 1, S0112: 1, T0042: 1, H0529: 1, L0369: 1, L0769: 1, L0646: 1, L0800: 1, L0805: 1, L0655: 1, L0657: 1, L0787: 1, L0789: 1, H0702: 1, H0684: 1, H0648: 1, S0152: 1, H0522: 1, H0626: 1, L0751: 1, L0747: 1, L0777: 1, L0608: 1, H0668: 1 and H0667: 1.		
HVVBP14	1059852	916	3 - 935	3091	Pro-26 to Ser-35, Lys-46 to Arg-63, Ile-71 to Asp-76, Lys-105 to Ile-115, Glu-119 to Tyr-125, His-136 to His-141, Leu-148 to Arg-154, Thr-165 to Glu-170, Asp-194 to Gly-201, Glu-216 to Pro-222, Ser-227 to Phe-232, Arg-236 to Glu-248, Glu-271 to Lys-282, Ala-297 to Leu-311.	L0754: 10, H0251: 9, L0591: 9, S0212: 8, S0003: 7, L0771: 7, S0192: 7, L0805: 6, H0616: 5, L0776: 5, H0689: 5, L0747: 5, L0777: 5, L0757: 5, L0759: 5, H0624: 4, S0420: 4, S0360: 4, L0471: 4, H0124: 4, H0551: 4, H0413: 4, L0769: 4, L0517: 4, S0126: 4, S3014: 4, L0756: 4, L0755: 4, L0731: 4, S0045: 3,	11p13	102772, 106210, 106210, 106210, 106210, 107271, 114550, 115500, 136530, 151390, 179615, 179615, 179616, 180385, 194070,

						H0575: 3, H0031: 3, H0068: 3, H0509: 3, L0665: 3, H0658: 3, S0406: 3, S0027: 3, L0439: 3, L0751: 3, L0745: 3, L0749: 3, L0750: 3, L0779: 3, L0753: 3, L0758: 3, H0171: 2, T0049: 2, H0663: 2, S0418: 2, S0356: 2, S0358: 2, H0632: 2, H0486: 2, L0477: 2, T0039: 2, H0013: 2, H0421: 2, H0544: 2, H0023: 2, S0022: 2, S0214: 2, H0615: 2, H0553: 2, H0032: 2, H0135: 2, H0591: 2, H0264: 2, H0412: 2, H0647: 2, L0659: 2, L0540: 2, L0783: 2, L0530: 2, L0789: 2, L0663: 2, L0664: 2, H0144: 2, S0374: 2, H0682: 2, H0435: 2, H0672: 2, S3012: 2, L0752: 2, S0434: 2, L0592: 2, L0581: 2, S0026: 2, S0194: 2, S0424: 2,		194070, 194070, 245349

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HOOJC15	1059967	917	1077 - 298	3092	L0747: 4, L0764: 3, H0648: 3, H0624: 2, H0673: 2, L0665: 2, L0748: 2, L0758: 2, H0171: 1, H0556: 1, H0351: 1, L0021: 1, H0318: 1, H0545: 1, H0354: 1, H0616: 1, L0763: 1, L0769: 1, L0667: 1, L0773: 1, L0766: 1, L0804: 1, L0659: 1, L0666: 1,		

						H0547: 1, H0519: 1, H0690: 1, H0658: 1, S0378: 1, S0146: 1, L0740: 1, L0589: 1 and S0106: 1.		
HODFG47	1059969	918	182 - 1213	3093	Gln-1 to Leu-9, Thr-21 to Phe-26, Leu-49 to Arg-62, Thr-114 to Asp-120, Arg-132 to Ser-140, Gln-148 to Trp-155, Pro-192 to Asn-198, Lys-235 to Asp-241, Tyr-256 to Trp-266, Ile-273 to Glu-283, Ser-297 to Lys-304, Val-326 to Val-331.	S0003: 3, L0776: 2, S0040: 1, H0587: 1, S0010: 1, H0328: 1, H0615: 1, H0551: 1, T0042: 1, H0494: 1, L0657: 1, H0519: 1, S0328: 1, H0539: 1, L0758: 1, L0608: 1 and S0194: 1.		
HBIPC05	1060137	919	2 - 265	3094	Pro-19 to Glu-24, Ala-66 to Arg-71, Pro-81 to Tyr-88.	H0617: 2, H0618: 1, S0052: 1 and H0593: 1.		
HOPJJ32	1060193	920	447 - 635	3095	Lys-30 to Phe-36.	L0766: 1, H0684: 1 and H0542: 1.	7p22	600259, 600259
HNOBN20	1060382	921	1380 - 1282	3096		H0615: 2, H0580: 1, H0024: 1, H0428: 1, L0804: 1, H0670: 1, H0651: 1 and L0756: 1.		
HOCPX74	1060391	922	3 - 1514	3097	Gly-18 to Glu-23.	H0650: 1, H0656: 1, H0618: 1, H0290: 1, H0551: 1, H0477: 1, S0450: 1, H0547: 1,		

						H0684: 1, H0660: 1, H0555: 1, L0741: 1, L0751: 1 and H0543: 1.		
HTEPP27	1060415	923	12 - 605	3098	Ala-67 to Tyr-72, Glu-75 to Asn-81, Glu-176 to Lys-187.	L0766: 7, L0803: 5, L0809: 5, L0779: 5, L0756: 4, S0380: 3, L0439: 3, L0759: 3, S0442: 2, H0031: 2, H0591: 2, H0616: 2, L0789: 2, L0438: 2, L0754: 2, L0755: 2, L0731: 2, L0758: 2, H0171: 1, H0657: 1, L2250: 1, H0024: 1, H0169: 1, H0372: 1, L0769: 1, L0637: 1, L0774: 1, L0805: 1, L0776: 1, L0527: 1, L0666: 1, S0374: 1, L0352: 1, H0547: 1, H0670: 1, H0660: 1, H0648: 1, H0539: 1, H0522: 1, L0748: 1, L0752: 1, H0445: 1, H0667: 1 and H0543: 1.		
HLYAJ79	1060495	924	218 - 292	3099	Lys-10 to Ser-19.	S0388: 5, H0594: 4, S0282: 3, H0598: 3, S0344: 3, S0136: 3, H0395: 2, S0280: 2, H0597: 2, S0194: 2,	17p13.3	113721, 247200, 600059, 601545

HCOOQ11	1060656	925	868 - 785	3100		H0543: 2, H0510: 1, H0316: 1, S0036: 1, H0538: 1, S0260: 1, H0445: 1, H0595: 1 and S0412: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280,
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HWMG151	1060711	926	1 - 618	3101	Tyr-23 to Arg-29, Gln-57 to Cys-65, Cys-164 to Trp-169.	H0651: 1, H0521: 1, L0744: 1, L0439: 1, L0731: 1 and L0605: 1.	L0805: 9, L0776: 8, H0585: 7, L0731: 7, L0751: 3, L0747: 3, S0282: 2, H0606: 2, H0038: 2, L0769: 2, L0803: 2, L0809: 2, H0690: 2, L0777: 2, L0752: 2, L0758: 2, L0601: 2, H0170: 1, S0358: 1, S0360: 1, S0007: 1, S0476: 1, S0278: 1, H0370: 1, H0559: 1, L0622: 1, L0623: 1, T0114: 1, H0427: 1, L0021: 1, H0204: 1, H0086: 1, H0178: 1, S0051: 1, H0688: 1, H0213: 1, H0163: 1, H0087: 1, H0494: 1, S0440: 1, L0535: 1, L3904: 1, L0764: 1, L0662: 1, L0794: 1, L0774: 1, L0375: 1, L0376: 1, L0657: 1, L0526: 1, L0783: 1, L0383: 1, L0787: 1, H0144: 1,		602475

							H0660: 1, H0696: 1, S0044: 1, L0740: 1, L0750: 1, L0780: 1, S0436: 1, H0667: 1, H0423: 1 and S0424: 1.		
HDPJG33	1060780	927	555 - 863	3102	Cys-38 to Thr-45, Ser-69 to Asp-79, Leu-81 to Gly-89, Pro-97 to Leu-103.		H0208: 1, H0024: 1, H0038: 1, L0776: 1, H0658: 1, H0521: 1 and H0665: 1.		
HLYAE20	1060967	928	801 - 1259	3103	Pro-10 to Arg-15, Gly-45 to Trp-57, Gly-77 to Pro-88.				
HKZAR86	1060972	929	1 - 1302	3104	Gln-1 to Arg-14, Leu-21 to Arg-32, Cys-44 to Cys-57.		L0771: 9, H0436: 6, H0494: 4, L0761: 4, L0789: 4, L0743: 4, H0656: 3, H0581: 3, L0764: 3, H0543: 3, H0580: 2, H0427: 2, H0538: 2, L0769: 2, L0806: 2, H0699: 2, H0689: 2, H0521: 2, L0755: 2, H0583: 1, H0341: 1, H0483: 1, H0662: 1, H0550: 1, S0222: 1, H0392: 1, H0486: 1, S0250: 1, H0488: 1, S0426: 1, L0800: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1,		

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HAOTX62	1061036	930	65 - 298	3105				
HOCQG58	1061180	931	3034 - 251	3106	Glu-22 to Ser-36, Gly-43 to Asp-74, Leu-83 to Leu-90, Glu-97 to Thr-106, Pro-135 to Arg-140, Lys-188 to Arg-201, Asp-330 to Asp-336, Thr-371 to Ser-381, Asp-413 to Trp-418, Tyr-454 to Lys-461, Gly-474 to Cys-479, Gly-511 to Asp-516, Glu-564 to Thr-573, Phe-640 to Ala-662, Arg-700 to Leu-706, Ala-737 to Tyr-743, Pro-800 to Gln-806, Ala-876 to Thr-881, Arg-921 to Leu-928.	H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2, L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1,		

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HOFNH33	1061185	932	131 - 925	3107	Asp-78 to Gly-84, Glu-112 to Cys-117, Glu-202 to Val-207, Ser-219 to Ser-234, Pro-237 to Lys-252.	H0415: 2		
HAJAQ63	1061238	933	966 - 2816	3108	Met-29 to Glu-38, Ser-40 to Ala-48.	H0436: 65, H0521: 11, S0422: 9, L0439: 9, S0360: 8, L0754: 8, L0471: 7, H0581: 6, L0521: 6, H0520: 5, H0519: 5, H0171: 4, S0358: 4, H0580: 4, S0003: 4, H0529: 4, L0520: 4, L0666: 4, L0663: 4, L0664: 4, H0144: 4, H0547: 4, H0539: 4, L0581: 4, L0362: 4, H0624: 3, H0657: 3, S0444: 3, L0717: 3, S0474: 3, S0049: 3, H0052: 3, H0428: 3, H0553: 3, H0090: 3, H0616: 3, H0413: 3, L0774: 3,		

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HVVBK70	1061258	934	650 - 1276	3109	Arg-17 to Gly-46, Leu-84 to Pro-133, Glu-137 to Pro-149, Glu-179 to Gly-185, Arg-188 to Tyr-198.	L0731: 9, H0424: 6, L0754: 6, L0758: 5, L0662: 4, L0748: 4, L0747: 4, L0749: 4, L0623: 3, S0050: 3, H0038: 3, H0616: 3, L0659: 3, L0485: 3, H0685: 2, H0255: 2, H0642: 2, H0031: 2, L0657: 2, L0439: 2,	

HVVBA82	1061332	935	3 - 500	3110	Arg-17 to Gln-23, Asn-63 to Gln-71.	L0748: 10, H0305: 6, H0150: 5, L0777: 5, L0731: 5, L0776: 4, L0809: 4, L0751: 4, S0358: 3, L0157: 3, L0774: 3, L0775: 3,	22q13.1	103050, 103050, 124030, 124030, 138981, 182380,
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HWLLG38	1061388	936	99 - 692	3111	Gly-7 to Arg-14, Phe-77 to Gly-83, Ser-98 to Leu-106, Asp-114 to Tyr-120, Met-143 to Lys-156, Met-161 to Gly-167, Ala-178 to Ser-183.	H0622: 2, L0763: 2, L0776: 2, L0759: 2, S0358: 1, H0370: 1, H0486: 1, H0013: 1, H0428: 1, H0035: 1, H0591: 1, L0783: 1, H0144: 1, S0330: 1, L0439: 1 and L0756: 1.		
HTPCH84	1061466	937	1 - 978	3112	Pro-2 to Trp-11, Arg-73 to Glu-79, Pro-95 to Thr-103, Pro-106 to Phe-115, Asn-117 to Tyr-124, Thr-142 to Cys-149, Thr-177 to Pro-189,	AR052: 108, AR053: 84, AR096: 60, AR039: 52, AR061: 15, AR055: 14, AR089: 11, AR060: 8, AR033: 7, AR104: 6 H0494: 4, H0593: 3,		

				Ser-196 to Cys-208, Gly-219 to Asp-224, Pro-278 to Gly-283.	S0356: 1, S0045: 1, H0485: 1, H0486: 1, H0052: 1, H0545: 1, H0179: 1, H0039: 1 and S0148: 1.			
HWLHJ68	1061521	938	139 - 471	3113	Cys-17 to Lys-31.	AR052: 8, AR053: 6, AR039: 5, AR096: 5, AR033: 3, AR089: 3, AR104: 3, AR060: 3, AR055: 3, AR061: 2 H0651: 709, L0766: 5, L0754: 5, L0756: 3, L0803: 2, L0779: 2, L0759: 2, S0354: 1, H0643: 1, H0013: 1, H0194: 1, H0545: 1, H0373: 1, H0252: 1, H0615: 1, H0316: 1, H0040: 1, H0641: 1, H0647: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0649: 1, L0804: 1, L0527: 1, L0656: 1, H0144: 1, H0702: 1, H0547: 1, H0555: 1, H0436: 1, S0028: 1, L0746: 1, L0750: 1, L0777: 1, L0780: 1, L0752: 1 and L0686: 1.		

HLGDA34	1061543	939	2 - 193	3114	Pro-27 to His-34.	S0428: 2, H0610: 1, H0179: 1, H0271: 1 and S0052: 1.		
HAICB08	1061629	940	3 - 338	3115	Glu-7 to Gly-12, Ala-71 to Leu-79, Ser-98 to Asp-103.	S0132: 1		
HVVAW60	1061694	941	208 - 741	3116	Pro-18 to Asn-25, Ala-44 to Asn-50, Arg-56 to Lys-64, Gly-76 to Gly-85, Lys-92 to Leu-98, Gly-116 to Gly-121, Gln-132 to His-138, Thr-159 to Asp-167.	L0794: 5, L0803: 3, L0518: 3, L0748: 3, H0556: 2, S0360: 2, S0422: 2, L0783: 2, L0809: 2, L0438: 2, L0740: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0757: 2, L0588: 2, L0594: 2, H0171: 1, T0002: 1, H0657: 1, H0638: 1, S0132: 1, H0369: 1, H0441: 1, H0431: 1, H0497: 1, S0280: 1, S0010: 1, H0318: 1, H0263: 1, H0544: 1, T0003: 1, H0373: 1, H0201: 1, H0032: 1, H0673: 1, H0068: 1, H0038: 1, H0551: 1, S0426: 1, L0640: 1, L0763: 1, L0638: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1,		

HPDVB50	1061708	942	3 - 206	3117	Cys-4 to Asp-16, Lys-36 to Tyr-41, Pro-48 to Asp-68.	L0748: 26, L0754: 20, L0747: 9, L0756: 8, L0777: 8, L0752: 8, L0744: 6, L0740: 6, L0757: 6, H0046: 5, H0553: 5, L0766: 5, L0803: 5, L0775: 5, L0755: 5, L0759: 5, S0418: 4, S0010: 4, L0662: 4, L0794: 4, L0774: 4, L0806: 4, L0438: 4, L0731: 4, L0758: 4, S0212: 3, S0358: 3, H0632: 3, H0635: 3, H0156: 3, H0052: 3, S0003: 3, S0152: 3, H0436: 3, S0037: 3, S0028: 3, L0750: 3, L0615: 2, H0556: 2, S0420: 2, H0619: 2, H0559: 2, H0013: 2, H0575: 2, H0421: 2, H0251: 2, H0545: 2, H0687: 2,	L0806: 1, L0805: 1, L0787: 1, H0660: 1, H0672: 1, S0328: 1, S3014: 1, L0749: 1, L0759: 1, H0445: 1, L0581: 1 and H0216: 1.	4q26	147680, 189800, 600919, 601542

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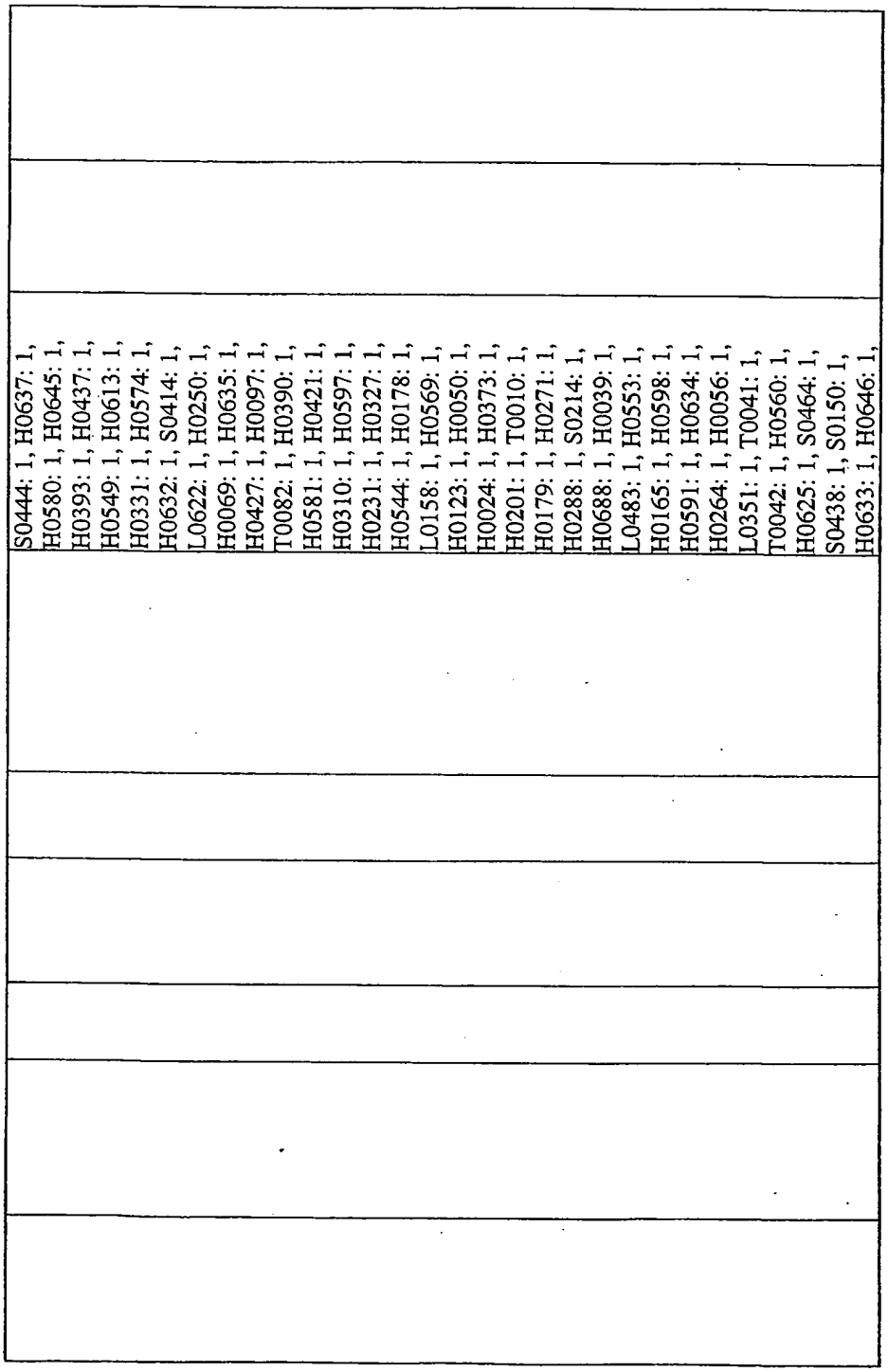
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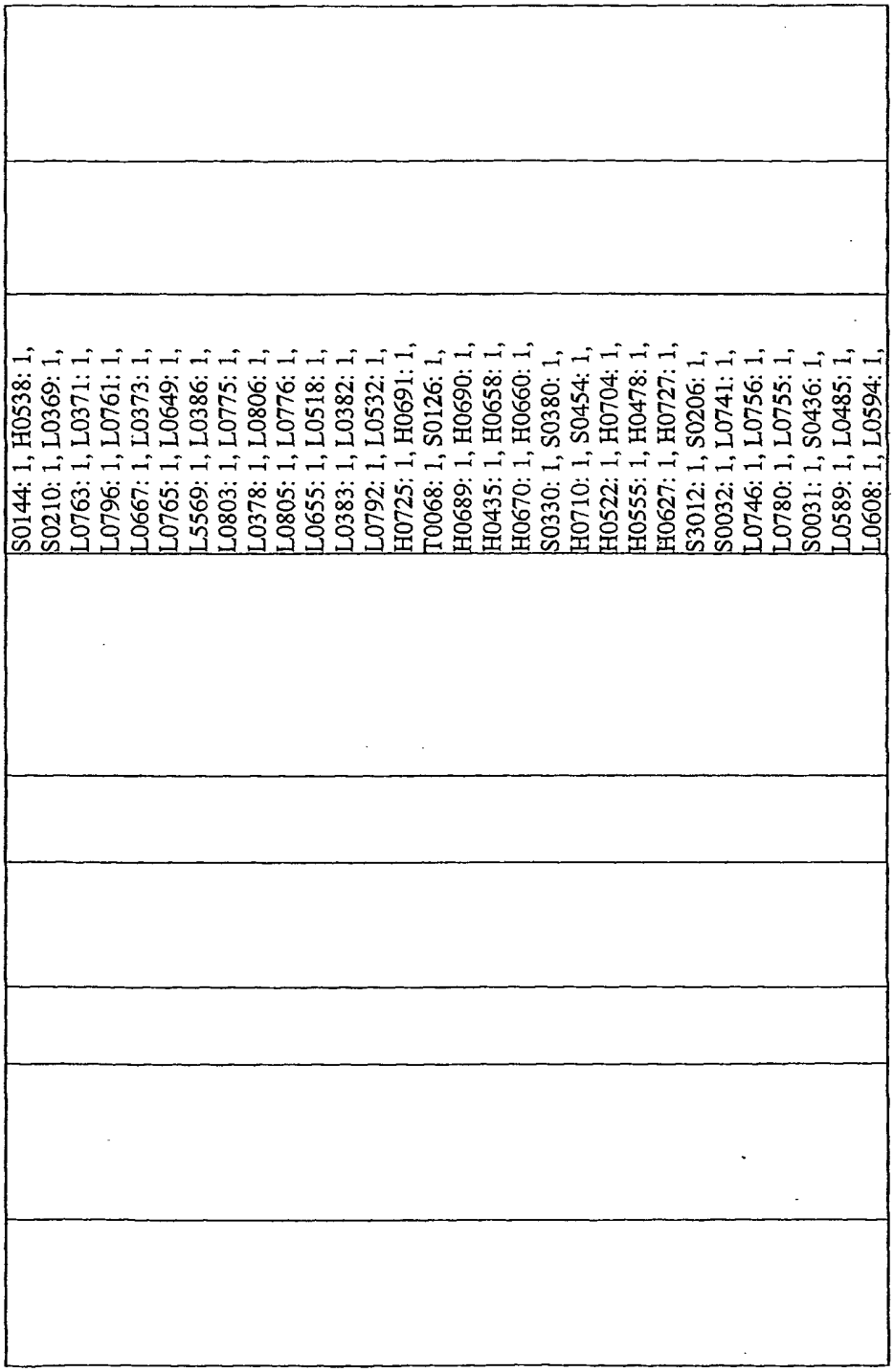
HAZAY40	1061765	943	3 - 1631	3118	Ser-24 to Lys-55, Glu-67 to Ala-72, Leu-74 to Pro-88, Lys-104 to Tyr-119, Ile-121 to Pro-132, Ser-138 to Glu-148, Asp-158 to Pro-167, Glu-177 to Asp-203, Ser-208 to Gln-218, Pro-221 to Pro-227, Gln-229 to Pro-236, Ser-246 to Asn-254, Pro-268 to Thr-279, Arg-281 to Thr-288, Pro-295 to Asp-301, Val-305 to Val-315, Ala-318 to Asn-344, Glu-351 to Pro-366, Ala-415 to Gly-424, Val-470 to Ser-475, Leu-480 to Gly-485, Pro-511 to Cys-522.	H0543: 1, H0423: 1, S0424: 1, S0452: 1, S0460: 1 and S0384: 1. L0439: 10, H0013: 7, L0438: 4, L0758: 4, L0599: 3, H0171: 2, H0632: 2, S0388: 2, T0010: 2, S0250: 2, H0553: 2, H0644: 2, L0662: 2, L0754: 2, L0747: 2, L0749: 2, L0779: 2, L0777: 2, L0591: 2, S0376: 1, S0045: 1, S0222: 1, H0461: 1, L0623: 1, H0244: 1, H0427: 1, S0280: 1, H0575: 1, H0036: 1, S0346: 1, H0327: 1, H0024: 1, H0051: 1, S0051: 1, H0039: 1, T0006: 1, H0383: 1, H0316: 1, S0036: 1, H0038: 1, H0268: 1, L0351: 1, H0280: 1, H0494: 1, L0769: 1, L0637: 1, L0646: 1, L0768: 1, L0649: 1, L0650: 1, L0805: 1, L0776: 1, L0659: 1, L0783: 1,		

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HACMZ51	1061766	944	61 - 1617	3119	Ala-38 to Thr-45, Ser-70 to Asp-77, Ser-85 to Asp-90, Asp-139 to Gly-145, Ile-207 to Asp-213, Arg-229 to Met-234, Gly-259 to Ser-264, Ile-281 to Ser-288, Asp-337 to Leu-343, Gln-369 to Ile-376, Gly-429 to Ser-440, Gln-448 to Val-456, Gln-461 to Thr-474.	L0777: 21, L0439: 18, H0052: 15, S0010: 12, H0013: 11, L0770: 11, L0749: 11, H0144: 10, L0748: 10, L0754: 10, L0747: 10, H0521: 9, S0222: 8, S0051: 8, S0036: 8, L0659: 8, L0740: 8, L0752: 8, L0758: 8, L0595: 8, S0278: 7, S0440: 7, L0744: 7, L0592: 7, H0457: 6, H0623: 6, L0646: 6, H0547: 6, S0152: 6, L0601: 6, H0575: 5, S0049: 5, H0046: 5, L0471: 5, H0551: 5, L0664: 5, L0665: 5, H0520: 5, S3014: 5, S0260: 5, L0599: 5, H0556: 4, S6024: 4, S0418: 4, S0354: 4, S0360: 4, S0388: 4, H0615: 4,		

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L0351: 1, T0041: 1,
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S0438: 1, S0150: 1,
H0633: 1, H0646: 1,


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L0763: 1, L0371: 1,
L0796: 1, L0761: 1,
L0667: 1, L0373: 1,
L0765: 1, L0649: 1,
L5569: 1, L0386: 1,
L0803: 1, L0775: 1,
L0378: 1, L0806: 1,
L0805: 1, L0776: 1,
L0655: 1, L0518: 1,
L0383: 1, L0382: 1,
L0792: 1, L0532: 1,
H0725: 1, H0691: 1,
T0068: 1, S0126: 1,
H0689: 1, H0690: 1,
H0435: 1, H0658: 1,
H0670: 1, H0660: 1,
S0330: 1, S0380: 1,
H0710: 1, S0454: 1,
H0522: 1, H0704: 1,
H0555: 1, H0478: 1,
H0627: 1, H0727: 1,
S3012: 1, S0206: 1,
S0032: 1, L0741: 1,
L0746: 1, L0756: 1,
L0780: 1, L0755: 1,
S0031: 1, S0436: 1,
L0589: 1, L0485: 1,
L0608: 1, L0594: 1,

HUXAL63	1061790	945	2 - 1300	3120	Thr-6 to Leu-24, Gly-87 to Ala-92, Ser-103 to Ser-118, Asp-127 to Asn-135, Gln-141 to Phe-147, Thr-149 to Arg-159, Phe-330 to Ala-338, Pro-390 to Thr-398.	S0011: 1, S0026: 1, S0192: 1, H0423: 1 and H0352: 1.	L0794: 6, L0766: 6, L0758: 6, L0665: 4, L0439: 4, L0779: 4, H0590: 3, L0598: 3, L0763: 3, L0666: 3, H0648: 3, L0754: 3, L0362: 3, H0506: 3, H0657: 2, H0661: 2, S0438: 2, L0646: 2, L0803: 2, L0375: 2, L0806: 2, L0809: 2, L0438: 2, L0744: 2, L0740: 2, L0747: 2, L0731: 2, S0434: 2, L0589: 2, H0713: 1, S0114: 1, H0583: 1, H0255: 1, H0669: 1, H0663: 1, S0222: 1, H0497: 1, L0021: 1, L0022: 1, H0036: 1, H0052: 1, L0163: 1, H0239: 1, H0179: 1, H0615: 1, H0553: 1, H0163: 1, H0038: 1, H0100: 1, S0440: 1, S0422: 1, S0426: 1, UNKWN: 1, L5575: 1,		

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					Lys-20 to Glu-27.	S0126: 9, H0622: 6, L0777: 5, S0250: 4, H0551: 4, S0045: 3, L0659: 3, L0809: 3, L0565: 3, L0757: 3, S0196: 3, S0212: 2, S0046: 2, H0619: 2, H0575: 2, H0591: 2, L0375: 2, L0805: 2, L0665: 2, L0743: 2, T0049: 1, S0420: 1, S0356: 1, S0360: 1, H0437: 1, H0586: 1, H0486: 1, H0013: 1, H0156: 1, L0021: 1, H0042: 1, H0618: 1,	14q24	107970, 115650, 182600, 602091
HLCLX57	1061886	946	3 - 953	3121				

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HMALF63	1061935	947	318 - 1130	3122	Gly-13 to Arg-19, Glu-28 to Glu-64, Glu-81 to Asp-88, Leu-103 to Asn-109, Ile-132 to Gln-144, Glu-148 to Leu-157, Met-188 to Tyr-193, Ser-223 to Thr-230.	L0439: 48, H0013: 25, H0521: 21, S0152: 17, H0090: 13, S0010: 9, S0126: 9, H0543: 9, H0553: 8, H0591: 8, H0144: 8, S0192: 8, H0556: 7, H0038: 7, H0551: 7, H0494: 7, S0240: 7, L0740: 7, L0758: 7, S0256: 6, S0132: 6, S0474: 6, L0666: 6, L0596: 6,	2p25.2-p25.1	

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HACMR36	1062057	948	1 - 1515	3123	Gly-20 to Gly-25, Leu-47 to Pro-56, Gly-63 to Glu-68, Glu-87 to Ala-99.	L0717: 3, H0618: 2, H0617: 2, L5566: 2, L0649: 2, L0666: 2, H0685: 1, H0716: 1, H0306: 1, S0360: 1, S0045: 1, S0222: 1, H0370: 1, H0392: 1,		

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		3124					
		80 - 2338					
		949					
	1062079						
HAOSM08							

		L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0592: 2, L0411: 1, H0624: 1, S0001: 1, S0420: 1, H0329: 1, S0045: 1, S0132: 1, S6026: 1, H0437: 1, H0592: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0251: 1, T0115: 1, H0046: 1, H0569: 1, H0014: 1, H0373: 1, H0266: 1, S0250: 1, H0328: 1, H0622: 1, H0032: 1, H0616: 1, H0412: 1, H0056: 1, H0623: 1, S0386: 1, H0100: 1, L0351: 1, L0564: 1, H0509: 1, L4747: 1, L0644: 1, L0804: 1, L0775: 1, L0375: 1, L0776: 1, L0809: 1, L0790: 1, L0532: 1, H0520: 1, H0670: 1, S0146: 1, H0555: 1, S0028: 1, L0748: 1, L0740: 1, L0777: 1, L0753: 1, L0757: 1, H0445: 1, L0605: 1,					

HTEFM89	1062084	950	380 - 1234	3125	Ala-18 to His-32, Tyr-51 to Phe-56, Asn-100 to Arg-106, His-140 to Gly-153, Ser-167 to Gly-193, Ser-205 to Asp-214, Trp-237 to Thr-244, Asp-268 to Gln-274.	S0242: 1 and S0276: 1.	H0038: 4, L0758: 2, S0040: 1, H0125: 1, S0420: 1, H0622: 1, H0634: 1, H0616: 1, H0623: 1, T0042: 1 and H0560: 1.	
HCHAK72	1062123	951	2 - 1183	3126	Pro-18 to Thr-25, Ser-36 to Tyr-45, Met-68 to Tyr-77, Gly-148 to Ser-154, Ser-234 to Gly-242, Asn-267 to Asp-274, Cys-337 to Gly-342, Met-388 to Thr-394.	AR039: 25, AR089: 23, AR096: 18, AR053: 16, AR060: 15, AR033: 14, AR055: 10, AR104: 9, AR061: 7 L0766: 3, S0356: 2, S0222: 2, H0266: 2, H0616: 2, S0422: 2, L0794: 2, L0655: 2, L0664: 2, H0672: 2, L0777: 2, L0731: 2, H0422: 2, H0171: 1, H0657: 1, S0116: 1, H0341: 1, H0483: 1, H0449: 1, S0376: 1, S0045: 1, H0587: 1, H0497: 1, H0421: 1, H0327: 1, H0057: 1, H0014: 1, H0375: 1, S6028: 1, S0003: 1, S0214: 1, H0328: 1,		

						H0644: 1, H0032: 1, H0090: 1, H0038: 1, H0087: 1, H0264: 1, H0268: 1, H0529: 1, L0762: 1, L0638: 1, L0771: 1, L0521: 1, L0803: 1, L0657: 1, L0659: 1, L0783: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, S0176: 1, S0406: 1, L0439: 1, L0779: 1 and L0758: 1.		
HPAME12	1062139	952	2 - 1654	3127	Phe-16 to Arg-24, Pro-31 to Thr-41, Leu-50 to Gly-63, Leu-132 to Asp-138, Gln-152 to Val-160, Gln-178 to Lys-188, Leu-196 to Glu-205, Pro-207 to Lys-213, Gly-221 to Ala-228, Glu-239 to Phe-245, Asp-257 to Ser-264, Ala-301 to Tyr-306, Phe-327 to Trp-334, Lys-371 to Lys-384, Glu-419 to Ala-426, Ile-447 to Phe-454, Val-475 to Thr-483,	H0422: 4, S0222: 3, L0775: 3, L0754: 3, H0171: 2, H0013: 2, H0635: 2, H0024: 2, L0493: 2, L0518: 2, L0438: 2, H0522: 2, L0740: 2, L0756: 2, L0755: 2, L0731: 2, L0757: 2, S0260: 2, H0170: 1, S0402: 1, S0376: 1, H0580: 1, H0574: 1, H0486: 1, L0021: 1, H0098: 1, H0036: 1, H0545: 1, S0048: 1, H0622: 1, H0031: 1, H0644: 1, H0032: 1, H0598: 1,	10		

					Leu-516 to Gln-522, Glu-528 to Asn-537.	S0036: 1, H0163: 1, H0591: 1, H0494: 1, H0641: 1, L0762: 1, L0646: 1, L0662: 1, L0794: 1, L0804: 1, L0783: 1, L0809: 1, L0666: 1, H0144: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, S0328: 1, H0518: 1, S0152: 1, S3014: 1, S0032: 1, L0744: 1, L0747: 1, L0750: 1, L0777: 1, H0595: 1, L0599: 1, H0667: 1 and H0423: 1.		
HPCQK37	1062260	953	3 - 830	3128	Ser-93 to Pro-99, Asn-214 to Gly-220, Thr-255 to Ala-268.	S0136: 47, L0769: 10, L0439: 7, L0750: 7, H0620: 5, L0776: 5, H0519: 5, L0740: 5, L0752: 5, H0341: 4, H0545: 4, S0440: 4, L0805: 4, L0509: 4, L0809: 4, L0666: 4, L0748: 4, S0436: 4, H0624: 3, H0265: 3, H0556: 3, S0418: 3, H0393: 3, L0717: 3, H0266: 3, S0422: 3, L0764: 3, L0659: 3,		

		H0696: 3, L0755: 3, L0731: 3, S0434: 3, S0026: 3, S0356: 2, S0358: 2, S0360: 2, S0045: 2, H0587: 2, H0574: 2, T0060: 2, S0010: 2, H0046: 2, H0510: 2, H0032: 2, H0673: 2, H0169: 2, H0674: 2, H0135: 2, H0038: 2, H0413: 2, H0646: 2, L0646: 2, L0766: 2, L0803: 2, L5622: 2, L0665: 2, S0374: 2, H0659: 2, H0648: 2, S0328: 2, S0378: 2, S0380: 2, S3014: 2, L0756: 2, L0777: 2, L0758: 2, L0588: 2, L0589: 2, L0592: 2, L0594: 2, L0603: 2, H0543: 2, H0171: 1, S0040: 1, H0717: 1, H0295: 1, T0049: 1, L0002: 1, H0657: 1, H0346: 1, H0255: 1, H0664: 1, H0305: 1, H0589: 1, S0420: 1, S0442: 1, S0376: 1, S0444: 1,				

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HCE4F10	1062309	954	977 - 3	3129	Glu-27 to Thr-34, His-253 to Tyr-281, Glu-290 to Asp-295.	H0052: 3, H0050: 2, H0650: 1, H0657: 1, S0212: 1, S0358: 1, S0045: 1, H0586: 1,		

							H0575: 1, H0046: 1, H0292: 1, H0328: 1, H0622: 1, H0135: 1, L0766: 1, S0374: 1, H0648: 1, H0539: 1, H0521: 1, L0750: 1, L0591: 1, H0542: 1 and S0460: 1.		
HBCBE63	1062328	955	32 - 790	3130	Ser-4 to Gln-21, His-33 to Pro-38, Arg-80 to Ser-87, Lys-133 to Tyr-139, Gln-162 to Phe-168, Ala-173 to Lys-179, Glu-198 to Glu-204, Ala-212 to Asn-218, Ser-238 to Arg-245.	S0358: 1, H0370: 1, H0270: 1, H0122: 1, H0253: 1, H0545: 1, H0046: 1, H0015: 1, L0669: 1, H0617: 1, H0032: 1, H0038: 1, H0616: 1, H0658: 1, S0436: 1 and L0596: 1.			
HSSJO19	1062346	956	409 - 248	3131	Arg-1 to Pro-12, Leu-29 to Gln-41.	L0439: 5, L0764: 2, H0660: 2, L0749: 2, S0031: 2, L0591: 2, H0486: 1, L0471: 1, H0424: 1, H0135: 1, L0763: 1, L0769: 1, L0639: 1, L0771: 1, L0375: 1, L0784: 1, L0776: 1, H0478: 1 and L0747: 1.			
HE8NQ23	1062369	957	574 - 1419	3132		AR060: 2, AR061: 2, AR055: 1, AR096: 1, AR033: 1, AR039: 1,			

						AR089: 0, AR104: 0, AR053: 0 L0665: 12, L0666: 5, L0794: 4, L0664: 4, L0759: 4, H0574: 3, L0657: 3, H0031: 2, H0553: 2, H0624: 1, H0632: 1, H0013: 1, H0328: 1, L0598: 1, L0369: 1, L0645: 1, L0662: 1, H0144: 1, H0660: 1 and S0406: 1.		
HTELJ95	1062431	958	95 - 949	3133	Ala-24 to Glu-29, Glu-91 to Arg-110, Arg-115 to Trp-124, Ser-126 to Asp-140, Tyr-156 to Phe-161, Lys-209 to Asp-215, Gly-224 to Thr-230, Pro-254 to Phe-261, Thr-266 to Asp-285.	L0766: 5, L0748: 5, L0362: 4, L0755: 3, H0170: 2, H0265: 2, H0328: 2, H0494: 2, L0776: 2, L0747: 2, L0750: 2, L0731: 2, L0758: 2, H0650: 1, H0657: 1, S0001: 1, H0638: 1, S0418: 1, H0329: 1, S0007: 1, L0717: 1, T0039: 1, L0021: 1, H0097: 1, H0544: 1, L0163: 1, S0388: 1, S0051: 1, H0266: 1, S0003: 1, S0214: 1, H0615: 1, H0616: 1, H0269: 1, H0623: 1, T0041: 1,		

						T0042: 1, H0538: 1, S0422: 1, L0763: 1, L0794: 1, L0803: 1, L0375: 1, H0144: 1, H0659: 1, S0330: 1, L0756: 1, L0780: 1, L0752: 1, L0588: 1, L0592: 1, H0668: 1, H0422: 1, L0697: 1 and S0384: 1.		
HTPCP50	1062435	959	3 - 2138	3134	Pro-9 to Lys-24, Ser-39 to Lys-46, Asp-80 to Asn-86, Gln-89 to Ser-103, Phe-112 to Thr-123, Gln-260 to Ser-272, Asp-283 to His-289, Pro-341 to Glu-351, Met-362 to Thr-368, Arg-382 to Arg-389, Asn-396 to Gly-410, Tyr-415 to His-427, Ile-477 to Lys-486, Tyr-575 to Thr-580, Lys-692 to Leu-700.	AR096: 4, AR055: 4, AR053: 3, AR089: 2, AR033: 2, AR052: 2, AR061: 2, AR060: 2, AR104: 2, AR039: 1 L0747: 5, H0623: 4, S0212: 3, S0045: 3, H0586: 3, H0427: 3, S0028: 3, L0439: 3, L0749: 3, L0599: 3, L0415: 2, S0046: 2, H0553: 2, H0412: 2, L0662: 2, L0659: 2, S0146: 2, H0713: 1, H0716: 1, T0049: 1, H0662: 1, S0356: 1, H0722: 1, H0486: 1, S0280: 1, H0575: 1, H0024: 1, H0375: 1, H0266: 1, H0428: 1,		

						H0039: 1, T0006: 1, H0032: 1, H0090: 1, H0268: 1, H0413: 1, H0509: 1, L0375: 1, L0789: 1, L0666: 1, S0126: 1, H0670: 1, H0539: 1, H0521: 1, S0032: 1, L0754: 1, L0779: 1, L0759: 1, H0444: 1 and S0434: 1.	
HKGBU67	1062496	960	779 - 201	3135	Gly-1 to His-6, Thr-55 to Gln-61, Cys-63 to Asp-70, Gly-132 to Gly-137, Lys-146 to Gly-152, Pro-174 to Lys-182.	L0777: 6, S0358: 3, L0372: 3, L0750: 3, L0755: 3, S0422: 2, L0766: 2, L0663: 2, S0152: 2, L0779: 2, L0588: 2, L0605: 2, H0685: 1, H0341: 1, H0255: 1, S0376: 1, S0410: 1, H0592: 1, H0497: 1, H0009: 1, L0471: 1, H0373: 1, S0214: 1, H0615: 1, H0090: 1, H0494: 1, H0509: 1, H0538: 1, L0769: 1, L0761: 1, L0646: 1, L0764: 1, L0771: 1, L0773: 1, L0794: 1, L0774: 1, L0775: 1, L0655: 1, L0789: 1, L0665: 1,	11	

							H0697: 1, H0520: 1, H0435: 1, S0044: 1, H0555: 1, L0747: 1, L0749: 1, L0753: 1, L0759: 1, H0445: 1, L0581: 1, H0423: 1 and H0712: 1.			
HFKIT82	1062544	961	2 - 1663	3136	Pro-10 to Val-15, Ala-42 to Lys-48, Asn-99 to Glu-104, Ile-114 to Gln-119, Asp-130 to Gly-137, Leu-167 to Tyr-175, Pro-187 to Glu-192, Arg-219 to Pro-224, Ala-233 to Thr-240.	AR039: 4, AR089: 3, AR055: 3, AR096: 3, AR060: 2, AR053: 2, AR104: 2, AR061: 1, AR033: 1 L0439: 6, H0620: 4, L0758: 2, S0040: 1, H0661: 1, H0619: 1, H0549: 1, H0587: 1, H0013: 1, L0021: 1, H0230: 1, H0373: 1, H0135: 1, L0770: 1, L0769: 1, L0776: 1, L0659: 1, L0783: 1, H0144: 1, H0519: 1, H0593: 1, H0682: 1, H0659: 1, L0751: 1, L0753: 1 and L0759: 1.			
HE2LW42	1062574	962	1300 - 1079	3137		H0624: 5, L0748: 4, S0222: 3, H0441: 2, H0013: 2, H0144: 2, L0745: 2, H0170: 1, H0171: 1, S0007: 1,			

						H0156: 1, L0471: 1, H0051: 1, H0604: 1, H0135: 1, S0386: 1, L0521: 1, L0776: 1 and L0754: 1.		192340, 234200
HOGCE44	1062586	963	141 - 2561	3138	Glu-46 to Ser-59, Asn-85 to Ser-98.	L0743: 7, L0731: 7, H0024: 5, H0264: 5, H0547: 5, L0439: 5, L0756: 5, L0764: 4, L0777: 4, L0752: 4, H0622: 3, H0163: 3, S0386: 3, H0529: 3, L0769: 3, L0809: 3, H0144: 3, H0435: 3, L0748: 3, L0747: 3, S0412: 3, S0040: 2, S0116: 2, H0341: 2, S0358: 2, S0444: 2, S0360: 2, H0549: 2, H0013: 2, H0036: 2, S0010: 2, H0318: 2, S0474: 2, H0050: 2, H0083: 2, H0266: 2, H0615: 2, T0006: 2, H0031: 2, H0644: 2, H0135: 2, S0002: 2, L0770: 2, L0771: 2, L0649: 2, L0803: 2, L0776: 2, L0438: 2, H0520: 2, H0539: 2,	20p13	

		H0518: 2, S0404: 2, S3014: 2, S0028: 2, L0741: 2, L0751: 2, L0750: 2, S0434: 2, L0605: 2, L0591: 2, L0362: 2, H0624: 1, H0171: 1, H0265: 1, S6024: 1, S0134: 1, H0583: 1, L0414: 1, S0282: 1, H0402: 1, S0356: 1, S0442: 1, S0376: 1, S0132: 1, H0619: 1, L0717: 1, H0437: 1, H0550: 1, H0600: 1, H0587: 1, H0486: 1, T0114: 1, H0635: 1, S0280: 1, H0042: 1, H0575: 1, H0590: 1, T0048: 1, H0581: 1, H0052: 1, H0596: 1, H0009: 1, L0471: 1, T0010: 1, S6028: 1, H0188: 1, H0428: 1, L0483: 1, H0553: 1, H0032: 1, H0674: 1, H0124: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0551: 1, H0268: 1, H0623: 1,				

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HOVJJ72	1062626	964	547 - 1782	3139	His-30 to His-35.	L0777: 5, L0750: 4, L0758: 4, H0549: 2, H0550: 2, H0333: 2, H0687: 2, H0688: 2, L0809: 2, L0743: 2, H0265: 1, H0556: 1, S0358: 1, H0645: 1, H0599: 1, H0575: 1, H0618: 1, H0123: 1,	19q13.1-q13.2	

					H0428: 1, H0163: 1, H0646: 1, L0770: 1, L0769: 1, L0637: 1, L0772: 1, L0774: 1, L0378: 1, L0806: 1, L0663: 1, S0330: 1, H0539: 1, S0190: 1, H0540: 1, L0744: 1, L0748: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, S0276: 1 and S0424: 1.		172400, 173850, 180901, 180901, 207750, 221770, 248600, 258501, 600918, 602716
HODBT14	1062628	965	3 - 326	3140	Gln-1 to Glu-8, Ser-17 to Asn-23, Glu-48 to Leu-54, Asn-78 to Ser-83.	H0328: 2 and H0581: 1.		
HBOEB83	1062629	966	1 - 1392	3141	Ala-1 to Ser-6, Thr-16 to Gln-23, Pro-28 to Asn-34, Glu-43 to Cys-49, Asp-95 to Gly-100.	H0328: 9, L0659: 7, L0662: 6, H0135: 4, L0750: 4, S0360: 3, H0329: 3, H0373: 3, L0375: 3, L0744: 3, H0392: 2, H0046: 2, S0364: 2, H0163: 2, H0100: 2, L0743: 2, S0356: 1, S0222: 1, H0486: 1, H0618: 1, H0439: 1, L0471: 1, S0362: 1, H0038: 1, L0520: 1, L0769: 1, L0637: 1, L0650: 1,	5q13	126060, 143200, 143200, 181510, 253200, 268800, 268800, 600354, 600354, 600354

						L0789: 1, L0664: 1, H0144: 1, H0690: 1, H0660: 1, S0028: 1, L0740: 1, L0759: 1, L0589: 1, S0242: 1 and H0352: 1.		
HODCT96	1062631	967	2 - 541	3142	Lys-1 to Glu-7, Thr-20 to Glu-35, Ser-54 to Glu-62.	AR039: 26, AR033: 17, AR104: 17, AR052: 15, AR053: 15, AR096: 14, AR060: 14, AR089: 13, AR055: 12, AR061: 7 H0617: 8, L0747: 8, L0769: 6, L0665: 5, L0758: 5, L0717: 4, L0794: 4, L0766: 4, L0659: 4, L0748: 4, H0181: 3, H0494: 3, L0638: 3, L0666: 3, H0658: 3, L0750: 3, L0757: 3, H0657: 2, H0255: 2, H0431: 2, H0318: 2, H0328: 2, T0006: 2, H0396: 2, S0426: 2, L0770: 2, L0771: 2, L0375: 2, L0805: 2, L0657: 2, L0384: 2, H0659: 2, L0744: 2, L0756: 2, L0779: 2, L0759: 2,		

		L0596: 2, L0588: 2, L0599: 2, L0593: 2, S0026: 2, H0265: 1, H0685: 1, H0341: 1, H0663: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0132: 1, H0411: 1, H0550: 1, S0222: 1, H0441: 1, L0477: 1, L0021: 1, S0346: 1, T0048: 1, H0309: 1, H0009: 1, H0172: 1, L0483: 1, H0031: 1, H0628: 1, H0673: 1, H0674: 1, H0040: 1, H0551: 1, H0412: 1, T0004: 1, H0102: 1, L0351: 1, H0280: 1, H0560: 1, H0633: 1, S0344: 1, L0762: 1, L0501: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0650: 1, L0806: 1, L0776: 1, L0656: 1, L0783: 1, L0790: 1, L2269: 1, L0565: 1, L0438: 1, H0547: 1, H0689: 1, H0435: 1, H0660: 1, H0672: 1,				

						S0330: 1, S0406: 1, H0576: 1, L0742: 1, L0439: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1, L0755: 1, L0731: 1, S0031: 1, H0445: 1, L0587: 1, L0592: 1, L0485: 1, L0595: 1, L0601: 1, H0668: 1, S0192: 1 and S0194: 1.		
HTXJE60	1062655	968	60 - 1124	3143	Asp-32 to Leu-43, Leu-47 to Arg-53, Glu-95 to Phe-102, Leu-123 to Val-130, Leu-146 to Gly-154, Asp-186 to Glu-192, Glu-246 to Ser-255, Asp-296 to Arg-302, Ser-334 to Ala-347.	S0360: 2, H0266: 2, S0330: 2, L0748: 2, H0556: 1, S0442: 1, S0358: 1, S0046: 1, L0471: 1, H0024: 1, H0634: 1, H0494: 1, H0560: 1, L0800: 1, L0803: 1, H0593: 1, H0435: 1, H0651: 1, H0521: 1, H0522: 1, S0406: 1, L0747: 1 and S0452: 1.		
HUSIQ62	1062679	969	83 - 814	3144	Thr-1 to Glu-10, Arg-20 to Leu-26, Gly-37 to Ser-49, Cys-58 to Ser-69, Lys-79 to Lys-85, Ser-88 to Glu-96, Ala-99 to Ser-135,	S0422: 8, H0710: 8, S0116: 7, L0471: 7, H0542: 7, H0580: 6, T0042: 6, H0547: 6, H0659: 6, L0748: 6, H0486: 5, H0543: 5, H0656: 4, H0341: 4,	4q31	107250, 181600, 189800, 266300

S0360: 4, S0440: 4, S0406: 4, L0747: 4, S0444: 3, H0318: 3, H0581: 3, H0428: 3, H0551: 3, L0667: 3, L0662: 3, L0766: 3, L0655: 3, L0666: 3, L0749: 3, L0758: 3, L0362: 3, H0668: 3, T0002: 2, H0650: 2, H0662: 2, H0393: 2, H0497: 2, H0013: 2, H0266: 2, H0412: 2, S0150: 2, H0529: 2, L0646: 2, L0375: 2, L0606: 2, H0144: 2, H0698: 2, H0521: 2, L0740: 2, L0750: 2, L0588: 2, L0605: 2, L0608: 2, S0192: 2, H0170: 1, L0615: 1, H0686: 1, H0685: 1, S0040: 1, H0663: 1, H0402: 1, H0449: 1, H0459: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, H0369: 1, H0069: 1, L0021: 1, T0082: 1, H0421: 1, H0744: 1, H0251: 1,	Ser-142 to Glu-151, Ser-169 to Lys-192, Ala-199 to Glu-244.					

		H0457: 1, H0620: 1, H0350: 1, H0629: 1, H0375: 1, H0267: 1, H0252: 1, H0553: 1, S0366: 1, H0163: 1, H0090: 1, H0040: 1, H0264: 1, H0413: 1, L0475: 1, H0560: 1, H0561: 1, H0641: 1, H0538: 1, L0769: 1, L5575: 1, L0761: 1, L0373: 1, L0372: 1, L0800: 1, L0768: 1, L0364: 1, L0774: 1, L0806: 1, L0652: 1, L0657: 1, L0656: 1, L3872: 1, L5623: 1, L0789: 1, L0790: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0702: 1, H0699: 1, S0374: 1, H0723: 1, H0726: 1, H0520: 1, H0519: 1, S0126: 1, H0682: 1, H0683: 1, H0684: 1, H0660: 1, H0666: 1, S0328: 1, S0380: 1, H0696: 1, L0744: 1, L0779: 1, L0755: 1, H0445: 1,			

						S0434: 1, L0591: 1 and S0026: 1.		
HPCTC48	1062686	970	206 - 361	3145	Arg-1 to Gly-14, Glu-24 to Ile-34, Glu-40 to Phe-52.	H0659: 1 and L0758: 1.		
HKBAK29	1062718	971	945 - 1562	3146	Glu-16 to Ser-23, Tyr-32 to Ala-44, Leu-56 to Ala-70, Ser-85 to Thr-91, Glu-102 to Lys-108, Glu-116 to Leu-122, Leu-136 to Leu-150, Glu-165 to Leu-170, Val-183 to Asp-191.	AR096: 7, AR104: 7, AR089: 5, AR033: 4, AR060: 4, AR053: 2, AR061: 1, AR055: 0, AR039: 0 S0358: 6, L0659: 6, L0805: 3, L0655: 3, L0665: 3, H0670: 3, L0755: 3, S0026: 3, S0360: 2, S0003: 2, L0649: 2, L0774: 2, L0776: 2, L0666: 2, L0663: 2, L0777: 2, L0758: 2, H0624: 1, H0170: 1, T0002: 1, H0656: 1, H0638: 1, H0637: 1, L0717: 1, S0278: 1, S0222: 1, H0497: 1, H0642: 1, H0574: 1, H0632: 1, H0486: 1, H0156: 1, L0021: 1, H0036: 1, H0251: 1, H0046: 1, L0157: 1, L0471: 1, H0083: 1, S0214: 1,		

						H0039: 1, H0644: 1, H0165: 1, H0674: 1, H0090: 1, H0040: 1, H0412: 1, H0413: 1, H0625: 1, H0529: 1, L0646: 1, L0768: 1, L0766: 1, L0803: 1, L0775: 1, L0784: 1, L0634: 1, L0783: 1, H0520: 1, S0126: 1, H0689: 1, H0683: 1, H0666: 1, H0648: 1, H0539: 1, H0521: 1, S0044: 1, S3014: 1, L0744: 1, L0756: 1, L0752: 1, L0757: 1, L0592: 1, L0485: 1, H0423: 1, H0422: 1 and H0506: 1.		
HPMCX26	1062743	972	329 - 682	3147	Ser-12 to Trp-23, Tyr-25 to Tyr-32, Pro-34 to Phe-41.	L0599: 2, H0271: 1, H0031: 1 and H0623: 1.			
HFKHF51	1062785	973	3 - 1910	3148		L0747: 4, H0620: 3, S0051: 3, H0424: 3, L0749: 3, L0756: 3, L0755: 3, H0295: 2, S0300: 2, H0333: 2, H0024: 2, H0100: 2, L0794: 2, L0774: 2, H0672: 2, L0744: 2,			

						L0754: 2, L0777: 2, L0731: 2, L0759: 2, S0412: 2, S0420: 1, S0222: 1, S0005: 1, S0049: 1, H0320: 1, S0250: 1, H0213: 1, H0417: 1, H0068: 1, L0564: 1, H0494: 1, L0771: 1, L0803: 1, L0775: 1, L0382: 1, L0809: 1, L0367: 1, L0787: 1, L0791: 1, L0793: 1, S0126: 1, H0690: 1, S0380: 1, L0612: 1, S3014: 1, L0779: 1, L0757: 1, S0260: 1, L0592: 1 and L0603: 1.	
HUCPE28	1062795	974	71 - 1090	3149	Lys-16 to Gly-23, Glu-33 to Val-43, Ser-55 to Ala-67, Gln-82 to Pro-97, Thr-108 to Gln-124, Pro-151 to Glu-157, Leu-184 to Cys-194, Ala-218 to Pro-225, Pro-227 to Asp-243, Lys-304 to Ser-324.	AR096: 1, AR055: 1, AR089: 1, AR061: 0, AR060: 0, AR033: 0, AR052: 0, AR104: 0 L0766: 11, H0622: 5, H0716: 2, S0420: 2, L0769: 2, L0803: 2, L0779: 2, H0656: 1, H0484: 1, S0418: 1, S0444: 1, H0580: 1, H0730: 1, H0619: 1, H0411: 1, H0592: 1,		

						H0427: 1, H0581: 1, H0052: 1, H0494: 1, L0774: 1, L0775: 1, L4501: 1, L0665: 1, S0374: 1, H0539: 1, S0404: 1, L0743: 1, L0745: 1, L0749: 1, L0777: 1, L0752: 1, S0436: 1 and L0097: 1.		
HPWAH30	1062840	975	1 - 708	3150	Phe-12 to Thr-19, Thr-26 to Cys-36, Thr-45 to Lys-50, Thr-54 to Gly-65, His-81 to Lys-88, Thr-110 to Lys-116, Phe-124 to Thr-131, Thr-138 to Lys-144, Ser-156 to Thr-162, His-165 to Lys-172, Asn-181 to Thr-187, Thr-194 to Lys-200, Thr-222 to Glu-230.	L0361: 2, H0170: 1, H0341: 1, H0663: 1, S0358: 1, S0045: 1, H0392: 1, H0586: 1, H0488: 1, H0509: 1, L0763: 1, L0665: 1, S0044: 1, L0779: 1 and L0593: 1.		
H6EDQ51	H6EDQ51R	976	91 - 303	3151				
HA5AU29	HA5AU29R	977	2 - 190	3152	Arg-1 to Cys-10.			
HACBX26	HACBX26R	978	2 - 124	3153				
HACMD23	HACMD23R	979	1 - 81	3154				
HACMF32	HACMF32R	980	52 - 342	3155				
HACMH54	HACMH54R	981	2 - 199	3156				
HACMH72	HACMH72R	982	2 - 478	3157		H0713: 5, H0684: 2,		

						H0685: 1, H0689: 1 and H0683: 1.		
HACMM26	HACMM26R	983	1 - 84	3158		H0685: 2, S0422: 1, L0766: 1 and L0526: 1.		
HACMM56	HACMM56R	984	221 - 451	3159				
HACMS55	HACMS55R	985	3 - 116	3160	Ser-9 to Phe-14.			
HACMX77	HACMX77R	986	3 - 419	3161	Glu-113 to Gly-118.	L0747: 25, S0358: 11, L0755: 9, L0740: 7, L0758: 7, L0775: 6, H0659: 6, L0742: 6, H0545: 5, S0406: 5, L0750: 5, L0756: 5, L0757: 5, L0362: 5, S0026: 5, H0580: 4, S0007: 4, H0413: 4, H0494: 4, S0440: 4, L0520: 4, L0769: 4, L0731: 4, H0543: 4, H0295: 3, H0341: 3, S0444: 3, H0581: 3, H0529: 3, L0770: 3, L0766: 3, L0382: 3, H0436: 3, L0744: 3, L0361: 3, H0686: 2, S0134: 2, S0218: 2, H0419: 2, H0484: 2, S0442: 2, S0360: 2, S0045: 2, H0486: 2, H0427: 2, L0021: 2, H0594: 2, T0023: 2,		

		H0063: 2, H0551: 2, H0560: 2, L0761: 2, L0773: 2, L0648: 2, L0521: 2, L0768: 2, L0653: 2, L0654: 2, L0776: 2, L0526: 2, S0374: 2, H0689: 2, H0670: 2, S0028: 2, S0206: 2, L0748: 2, L0439: 2, L0751: 2, L0754: 2, L0749: 2, L0752: 2, L0759: 2, H0445: 2, L0595: 2, H0171: 1, H0265: 1, H0685: 1, H0294: 1, H0657: 1, S0116: 1, S0212: 1, S0001: 1, H0192: 1, S0376: 1, H0676: 1, S0408: 1, H0431: 1, H0370: 1, H0392: 1, H0600: 1, H0586: 1, H0587: 1, H0643: 1, H0331: 1, H0632: 1, T0060: 1, T0082: 1, H0318: 1, S0049: 1, H0251: 1, H0309: 1, H0054: 1, H0327: 1, H0530: 1, H0544: 1, H0123: 1, H0050: 1, L0471: 1,				

		H0012: 1, H0620: 1, H0014: 1, H0373: 1, H0051: 1, H0510: 1, H0266: 1, S0022: 1, H0428: 1, H0169: 1, H0674: 1, S0036: 1, H0380: 1, H0412: 1, T0042: 1, L0475: 1, S0438: 1, H0509: 1, S0150: 1, H0647: 1, S0344: 1, S0210: 1, H0026: 1, L0506: 1, L0630: 1, L0646: 1, L0764: 1, L0771: 1, L0767: 1, L0522: 1, L0774: 1, L0375: 1, L0655: 1, L0661: 1, L0807: 1, L0657: 1, L0659: 1, L0384: 1, L0383: 1, L0519: 1, L0532: 1, L0666: 1, H0144: 1, T0068: 1, H0547: 1, H0519: 1, S0126: 1, H0682: 1, H0658: 1, S0378: 1, S0380: 1, H0525: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, S0392: 1, H0478: 1, H0631: 1, S3012: 1,				

						L0779: 1, L0753: 1, S0434: 1, L0588: 1, L0485: 1, H0668: 1, H0653: 1, H0136: 1, S0196: 1, H0542: 1, H0422: 1 and H0008: 1.		
HACMZ45	HACMZ45R	987	3 - 245	3162	Thr-11 to Gly-16, Ser-49 to Ser-55, Ile-64 to Gly-69.			
HACND54	HACND54R	988	2 - 274	3163	Gln-1 to Lys-6.	H0617: 9, H0618: 4, H0253: 4, H0545: 4, L0774: 4, L0439: 4, L0750: 4, L0766: 3, L0803: 3, L0806: 3, L0748: 3, L0747: 3, L0777: 3, L0752: 3, L0758: 3, H0685: 2, H0333: 2, H0559: 2, H0100: 2, L0644: 2, L0542: 2, L0565: 2, L0438: 2, L0587: 2, S0040: 1, S0114: 1, H0589: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, H0580: 1, H0351: 1, H0411: 1, S0278: 1, H0549: 1, S0222: 1, H0431: 1, H0438: 1, T0109: 1, H0427: 1, S0280: 1,		

						L0021: 1, H0599: 1, H0318: 1, H0052: 1, H0544: 1, H0046: 1, H0024: 1, H0373: 1, H0051: 1, H0071: 1, T0010: 1, H0266: 1, H0615: 1, T0006: 1, H0604: 1, H0213: 1, H0553: 1, H0124: 1, H0087: 1, H0264: 1, H0412: 1, H0059: 1, H0561: 1, H0132: 1, H0647: 1, S0208: 1, L0598: 1, L0770: 1, L0769: 1, L0646: 1, L0642: 1, L0643: 1, L0764: 1, L0768: 1, L0375: 1, L0629: 1, L0783: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0665: 1, H0547: 1, H0519: 1, H0658: 1, H0660: 1, H0651: 1, S0330: 1, S0380: 1, S0146: 1, S0406: 1, H0576: 1, H0478: 1, L0749: 1, L0780: 1, L0755: 1, S0192: 1 and H0352: 1.		
HACND56	HACND56R	989	166 - 318	3164			H0457: 4, S0474: 3,	